



SEQUENCE LISTING

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<120> INDUCING CELLULAR IMMUNE RESPONSES TO
HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID
COMPOSITIONS

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<141> 1999-07-08

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<151> 1997-03-12

<150> US 60/013,363
<151> 1996-03-13

<150> US 09/189,702
<151> 1998-11-10

<150> US 08/205,713
<151> 1994-03-04

<150> US 08/159,184
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1 5 10 15

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<400> 3058

Ala	Glu	Leu	Leu	Ala	Ala	Cys	Phe	Ala	Arg	Ser	Arg	Ser	Gly	Ala
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Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr
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Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu
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Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala Asp Glu Gly

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His Leu Pro Leu His Pro Ala Ala Met Pro His Leu Leu Val Gly
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Lys Arg Arg Leu Lys Leu Ile Met Pro Ala Arg Phe Tyr Pro Asn
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Glu Ile Arg Leu Lys Val Phe Val Leu Gly Gly Cys Arg His Lys
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Phe Pro Trp Leu Leu Gly Cys Ala Ala Asn Trp Ile Leu Arg Gly
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Ser Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser
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Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp
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Gly Ile His Leu Asn Pro Asn Lys Thr Lys Arg Trp Gly Tyr Ser
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Asp Glu Gly Leu Asn Arg Arg Val Ala Glu Asp Leu Asn Leu Gly
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Leu Gly Asn Leu Asn Val Ser Ile Pro Trp Thr His Lys Val Gly
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Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp Tyr
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His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser Ser Ala
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Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly Arg Pro
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His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met
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Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
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Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Ile
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Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile
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Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val
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Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
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Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
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Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr
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Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu

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Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
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Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
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Leu Gly Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe
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Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
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Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys
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Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu
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Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu
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Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
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Pro Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg
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Ala Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg
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<400> 3141

Leu Pro Lys Val Leu His Lys Arg Thr Leu Gly Leu Ser Ala Met

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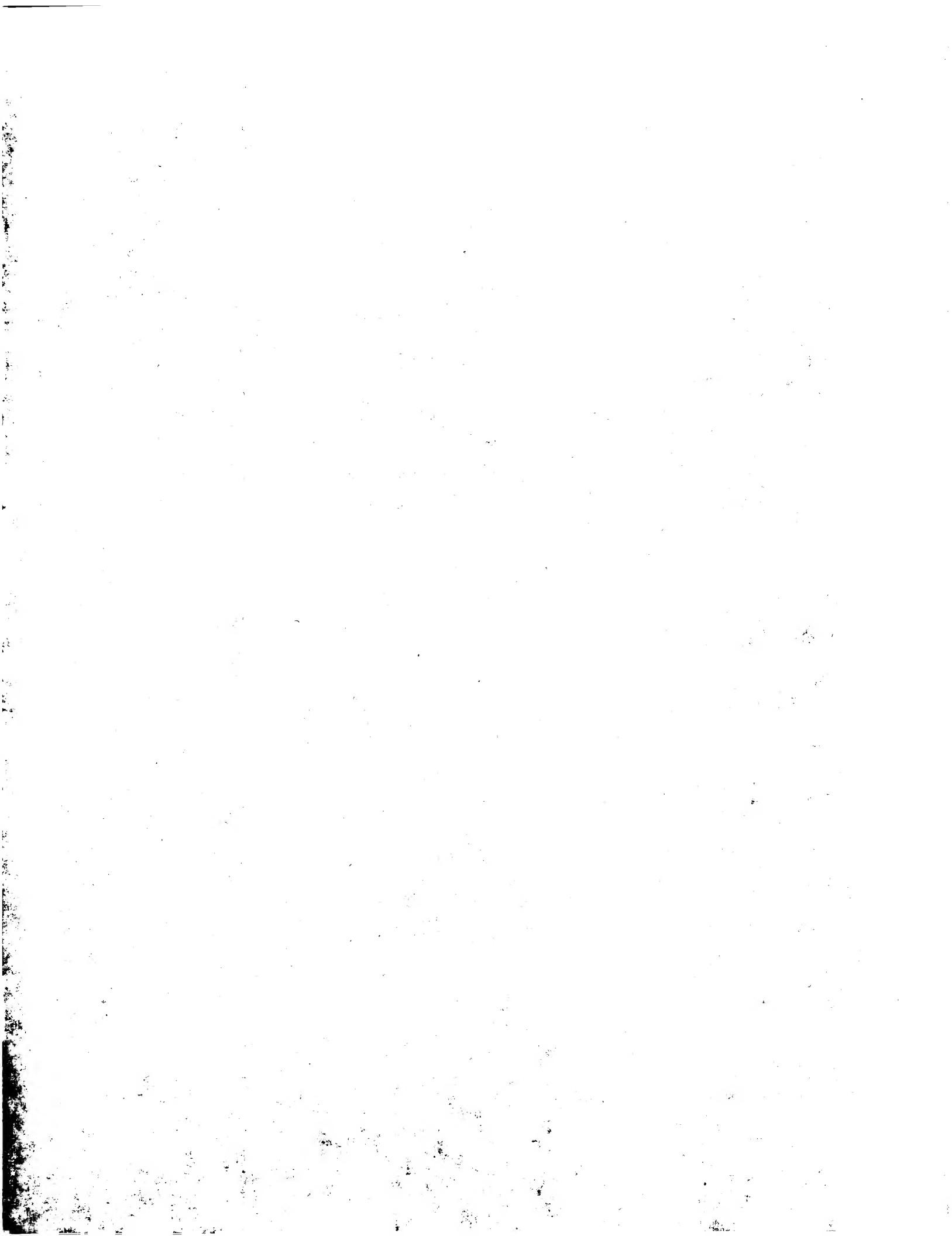
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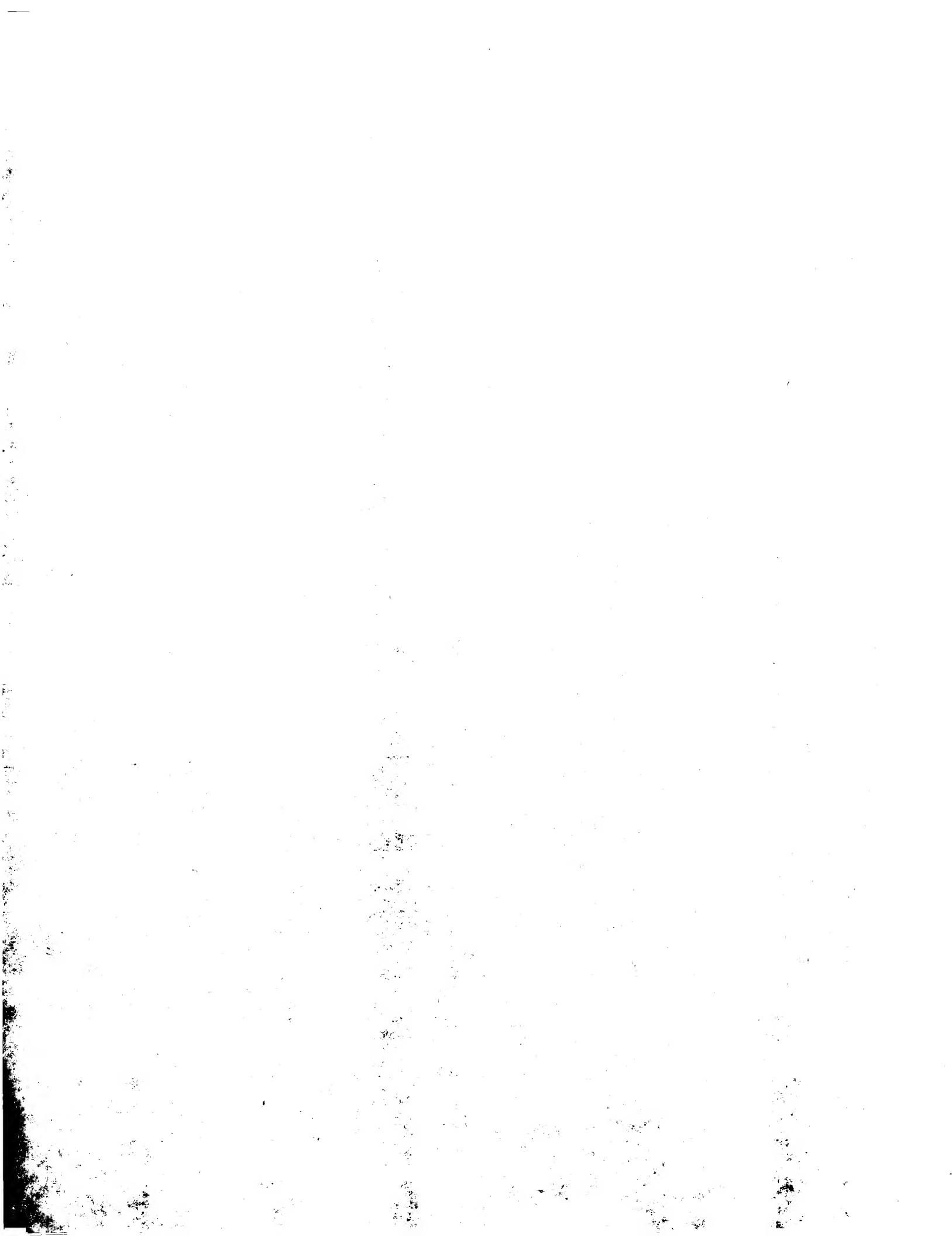
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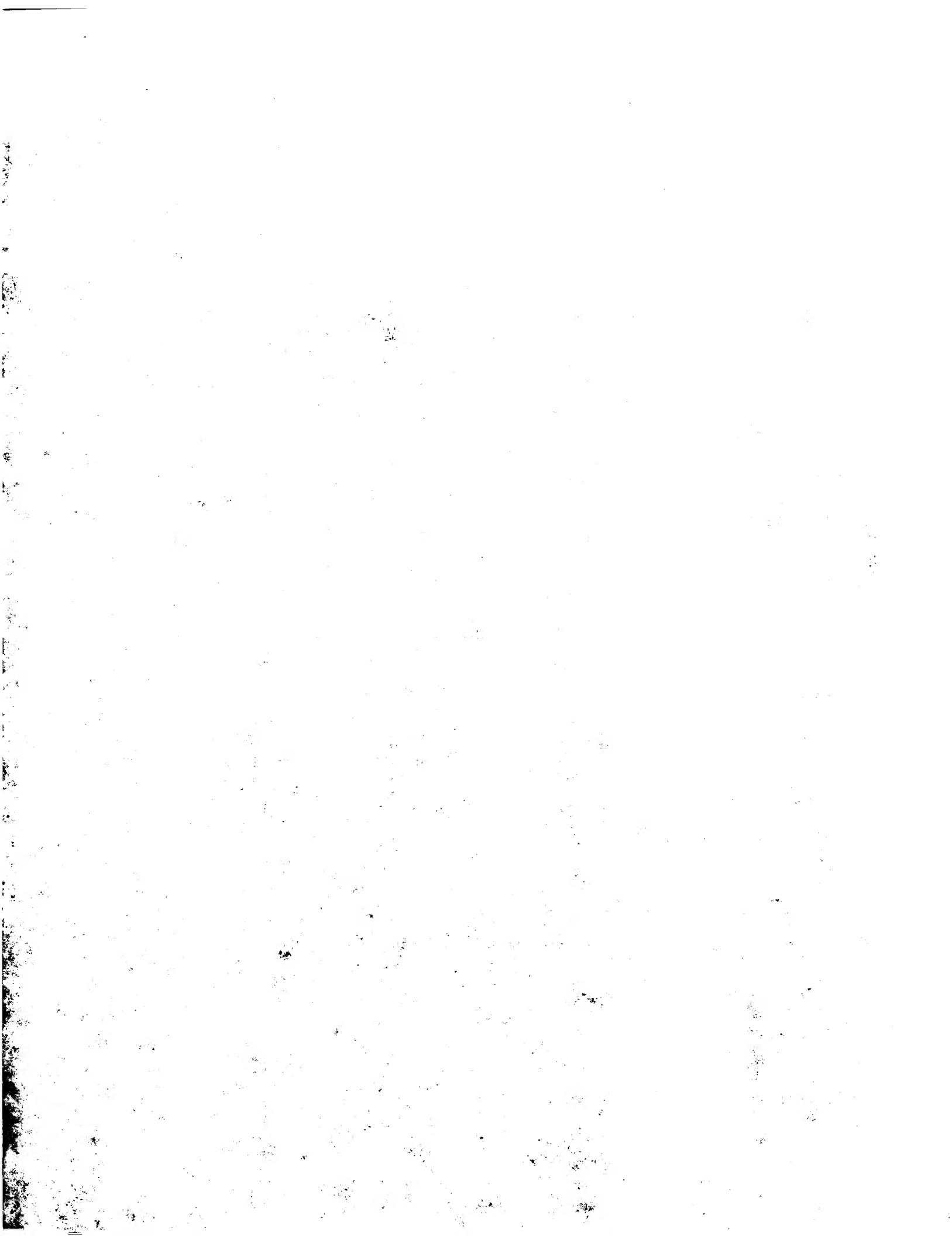
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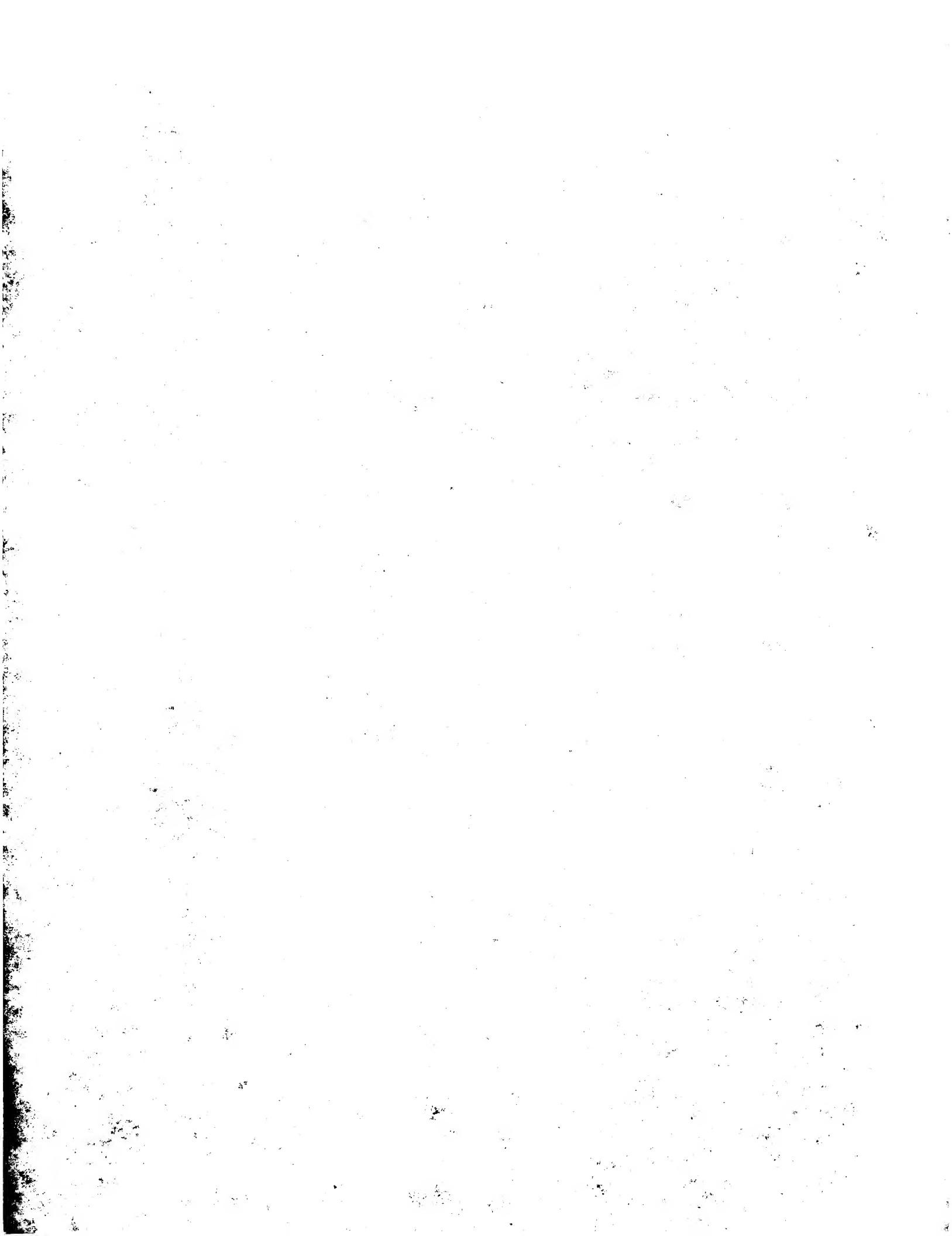
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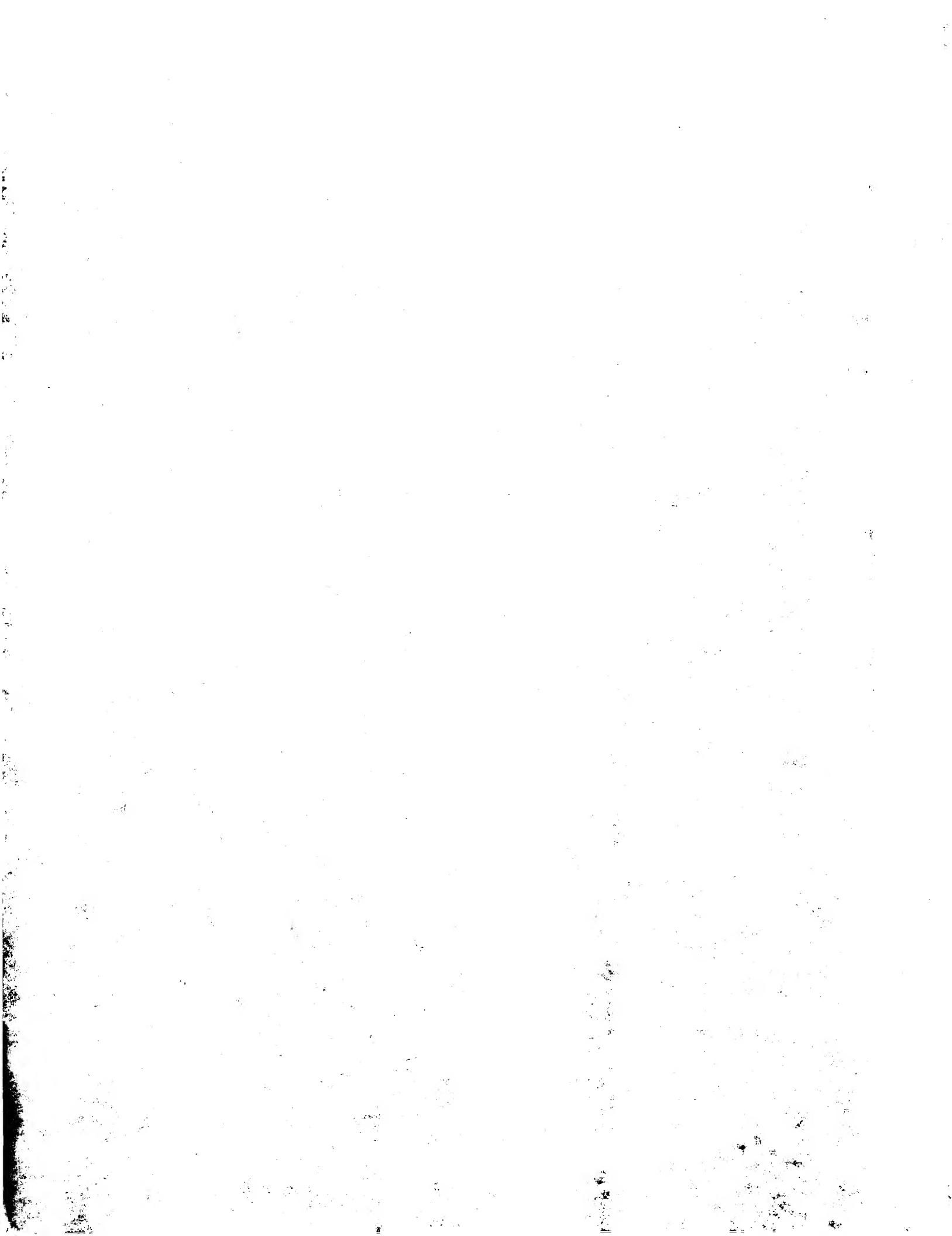


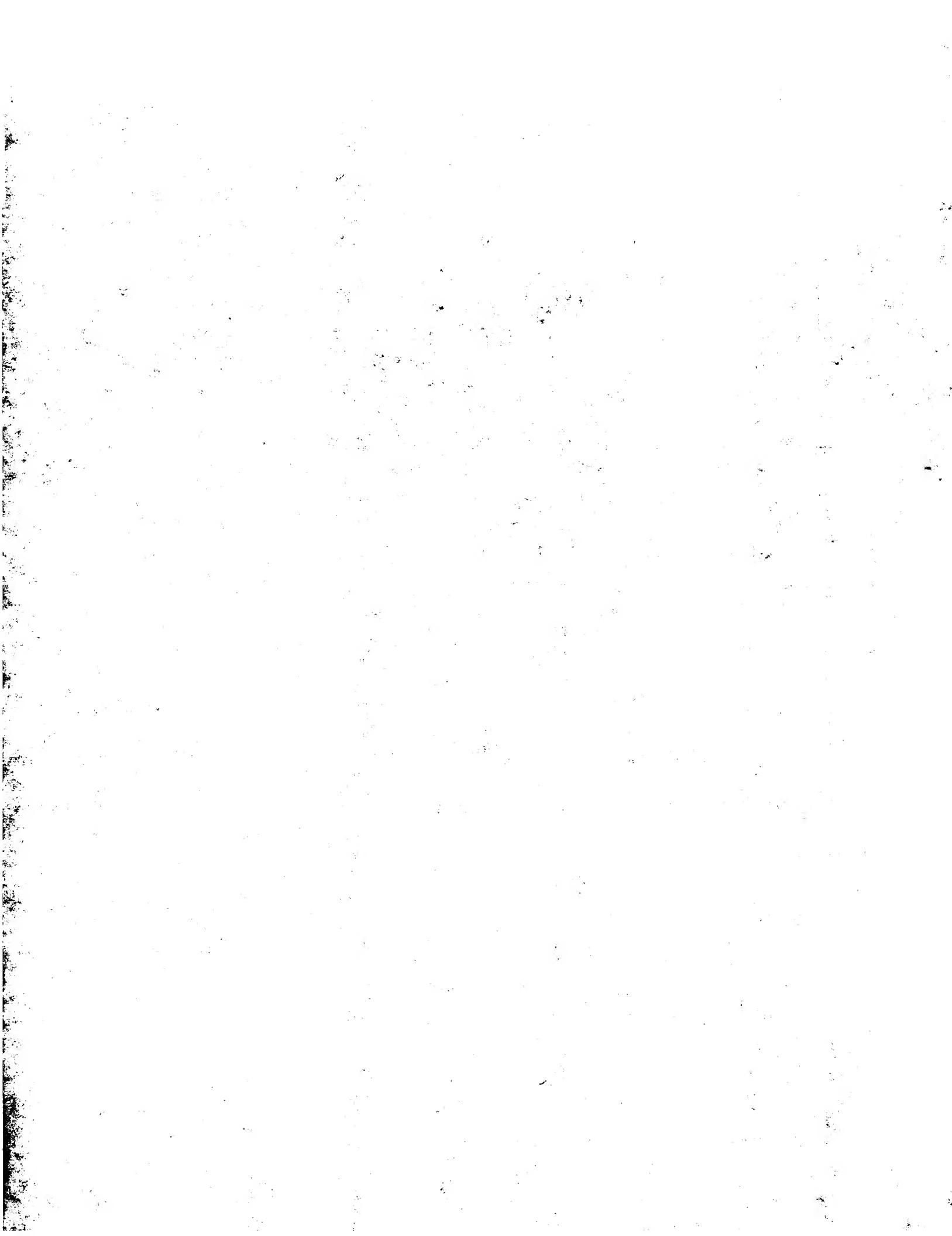


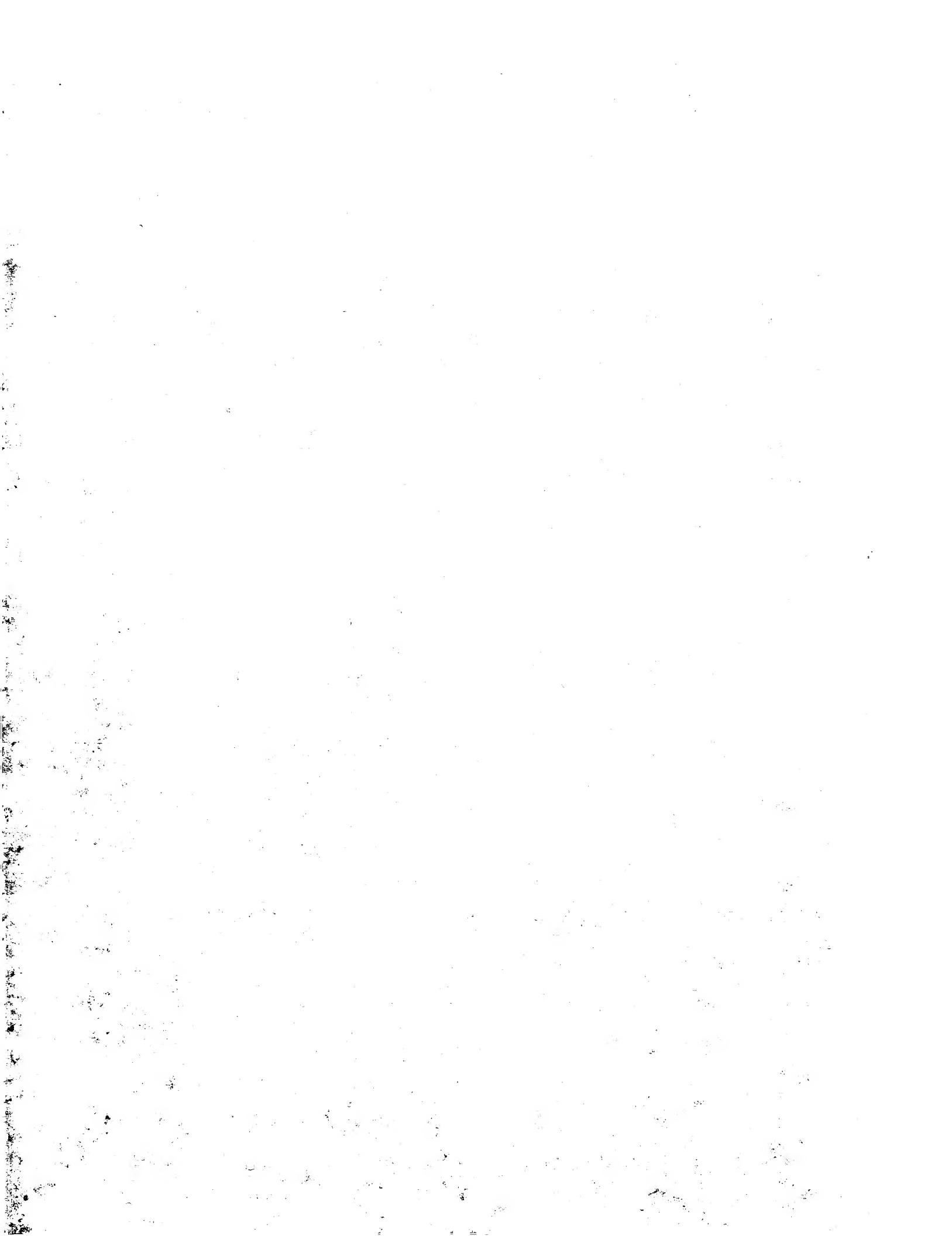


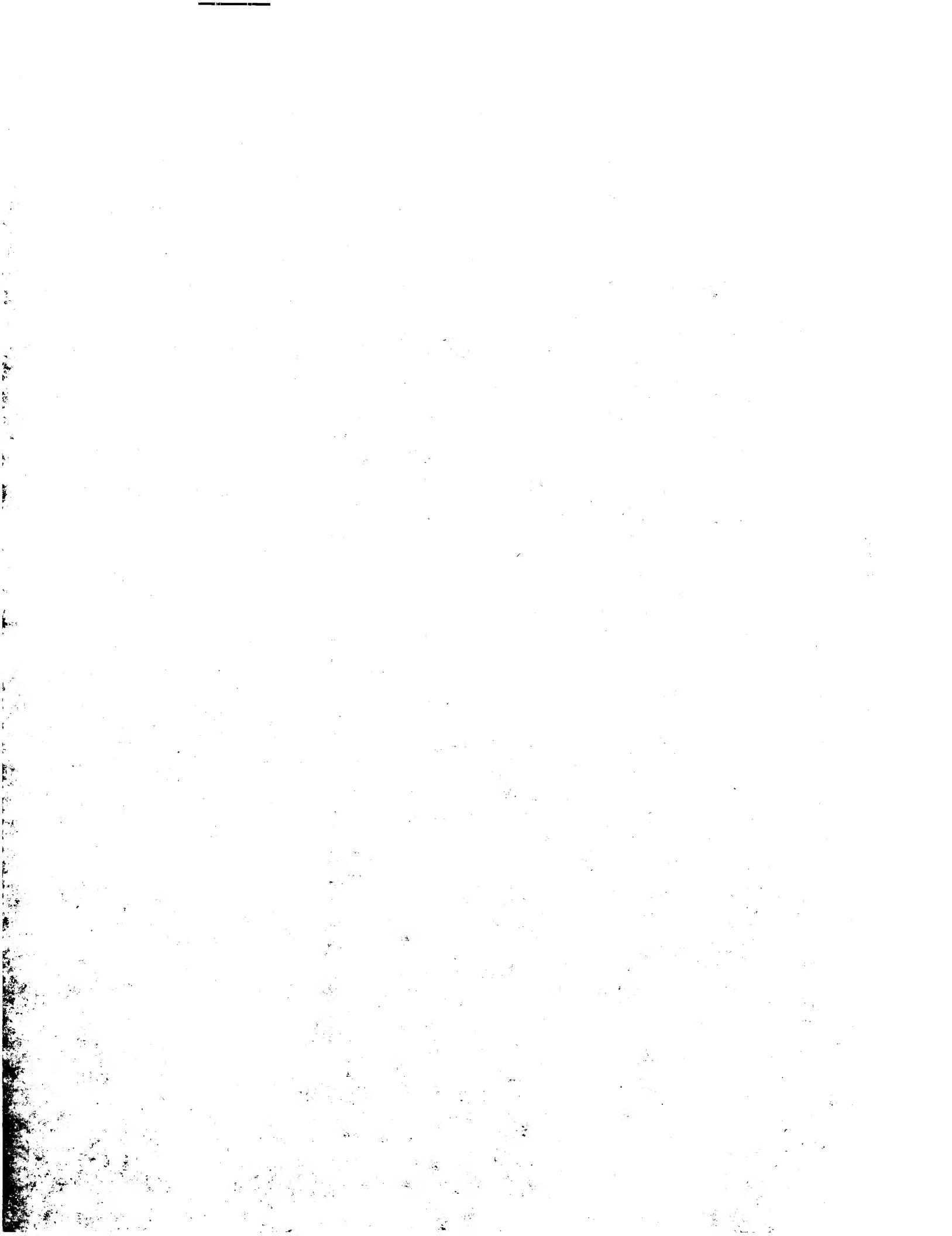


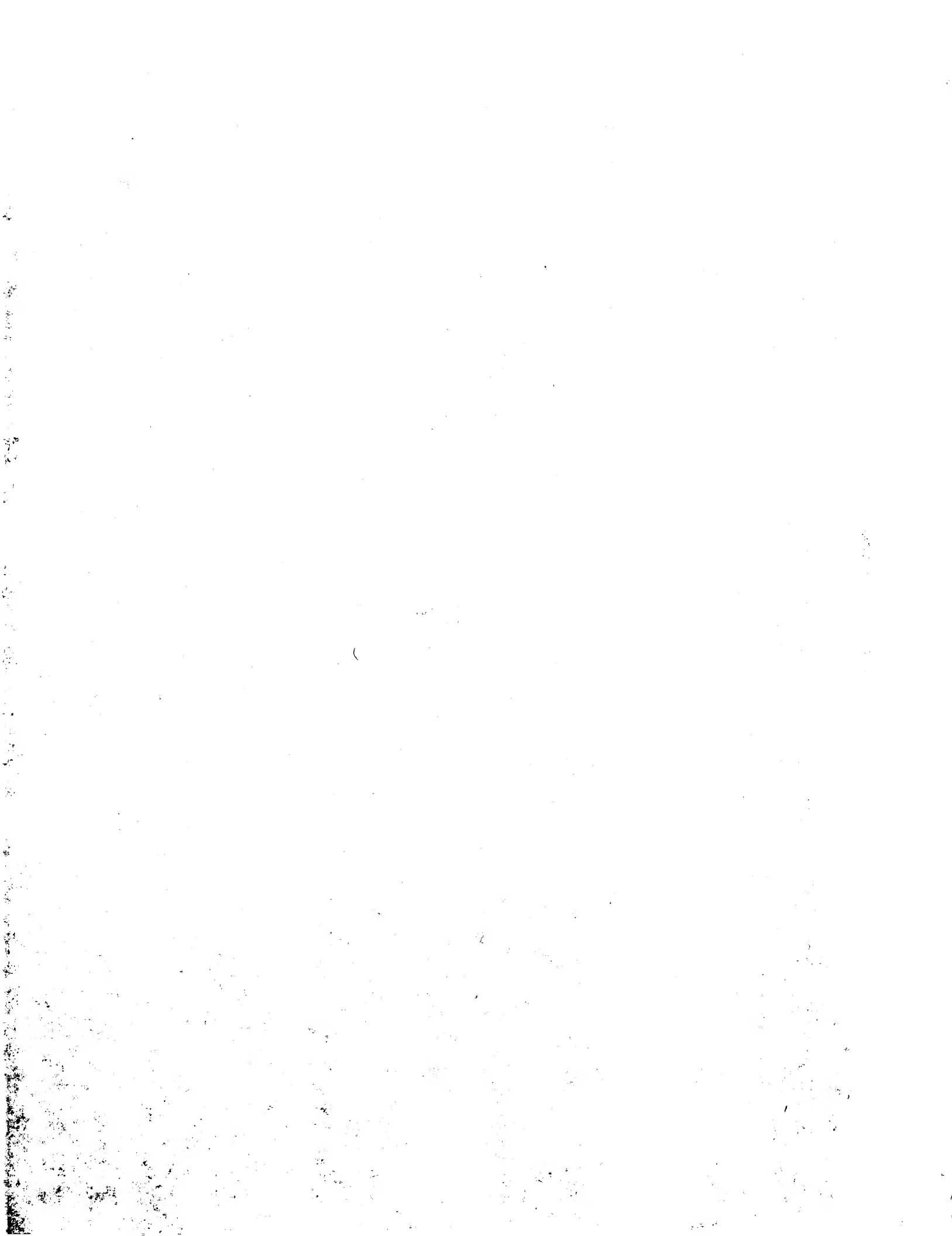


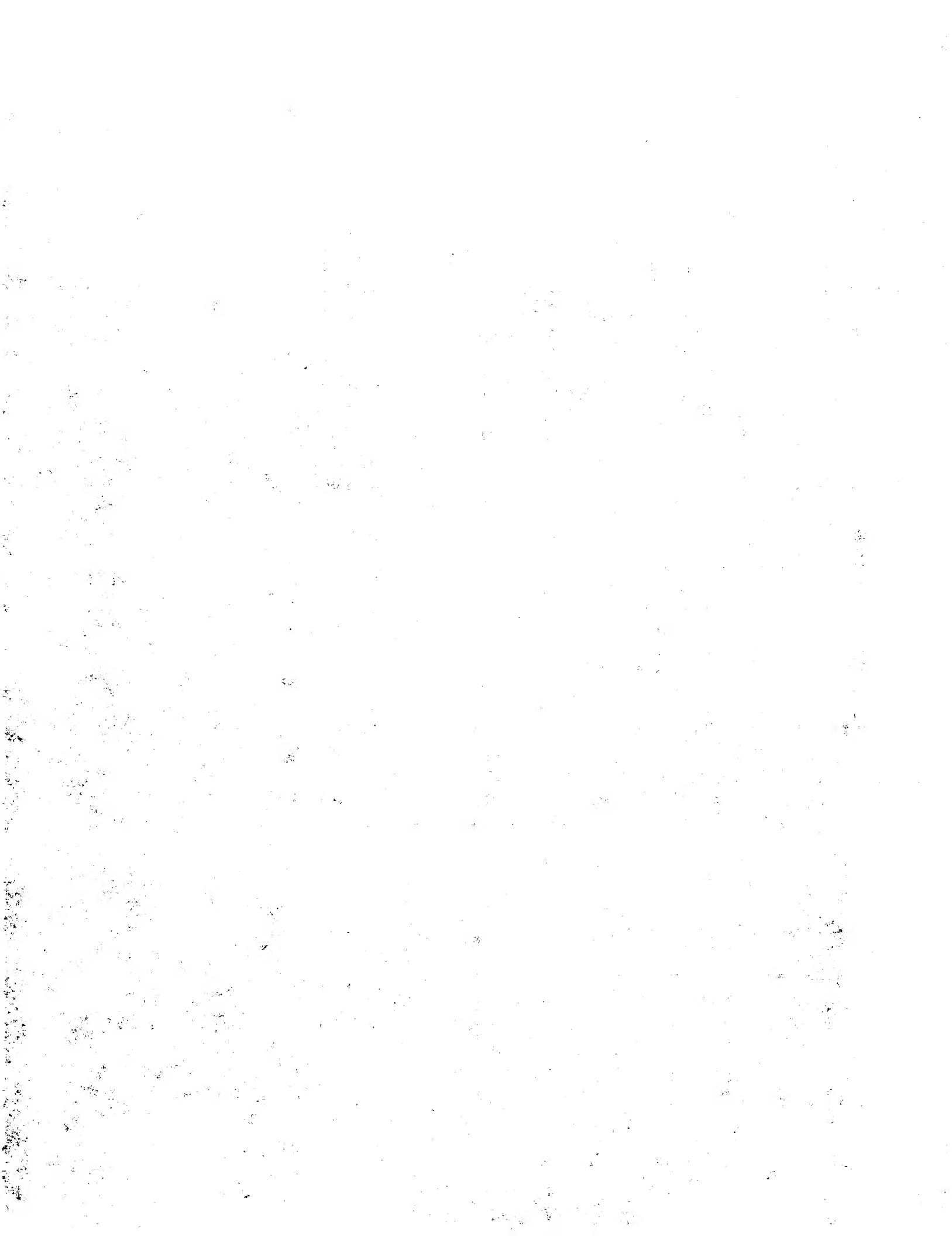


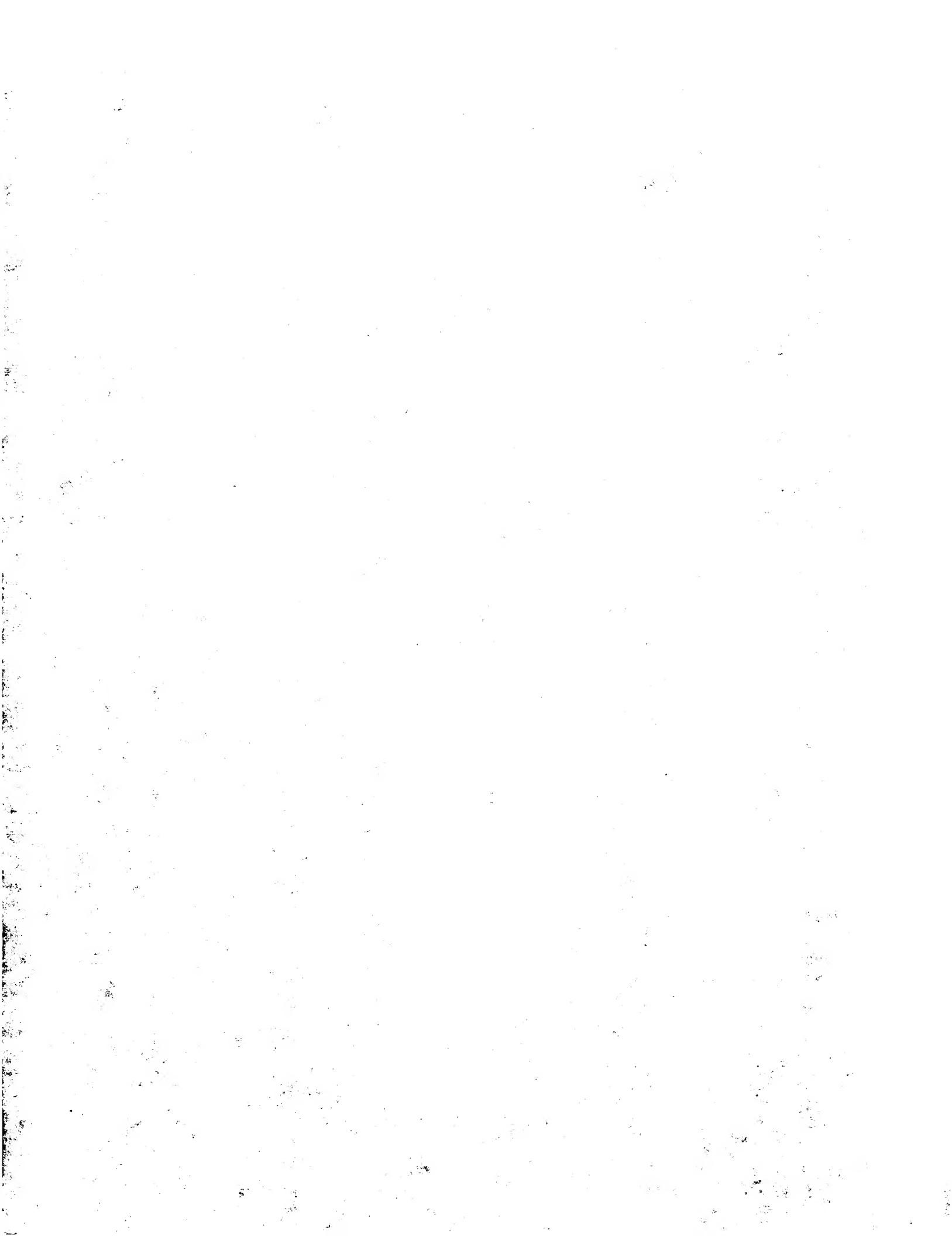


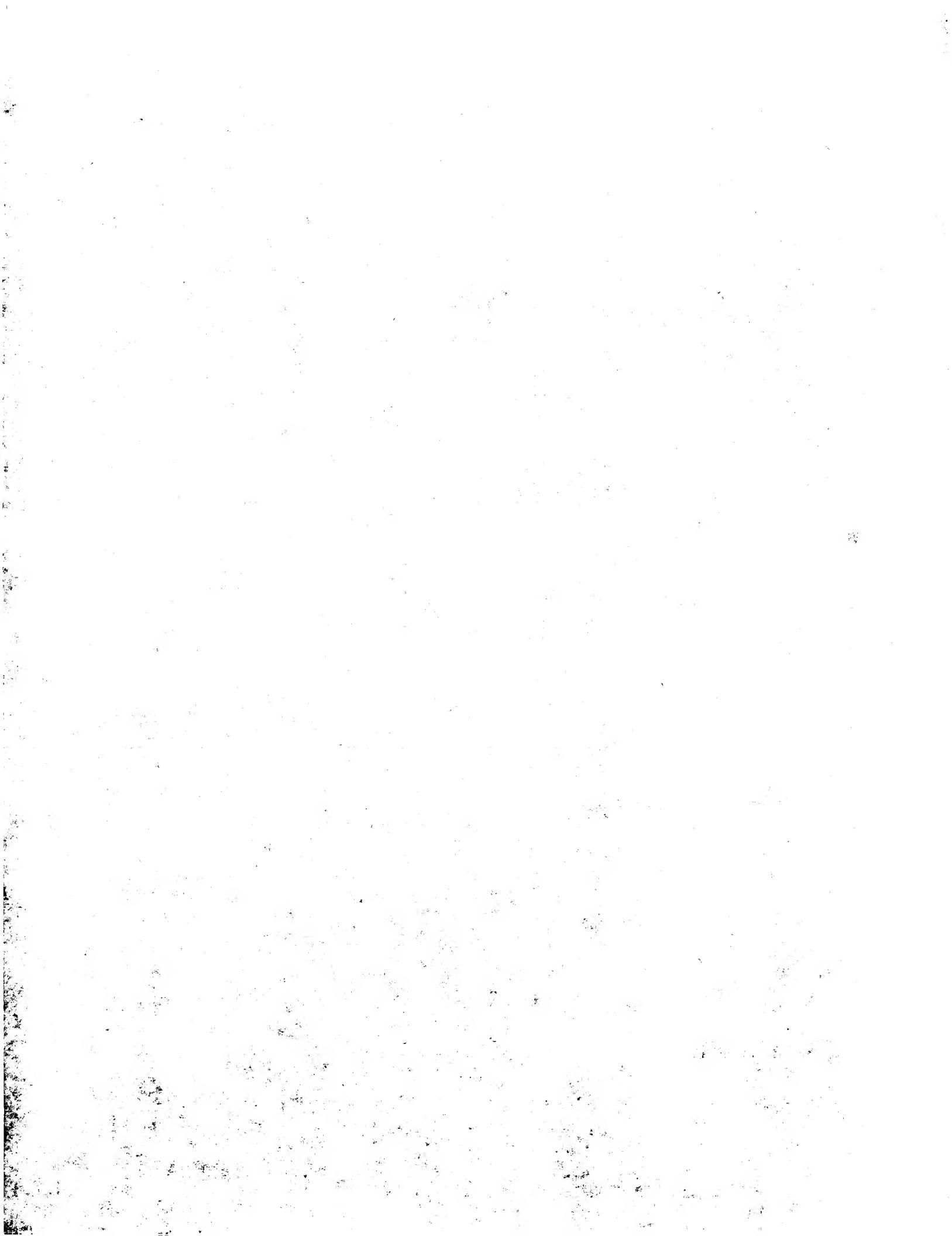


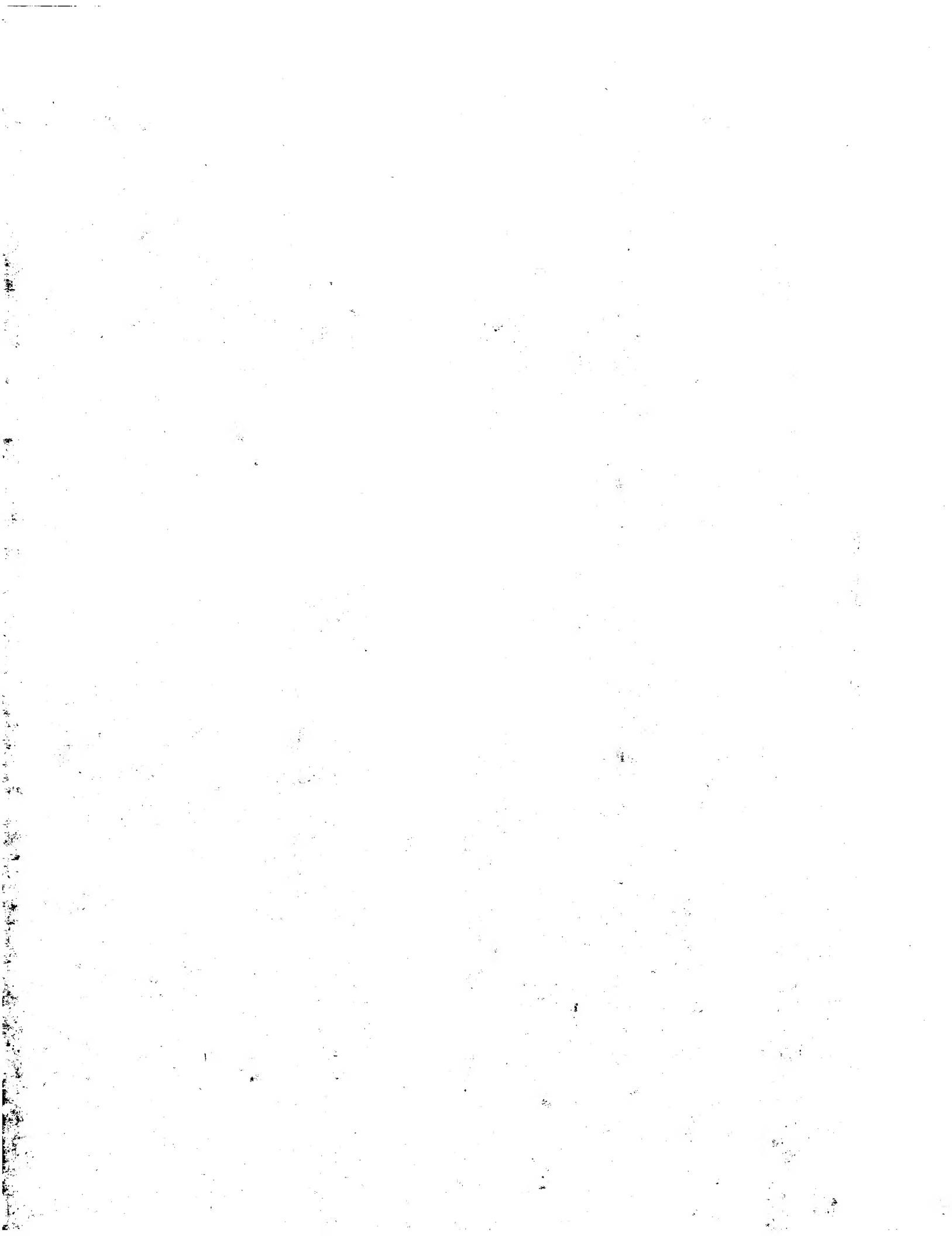




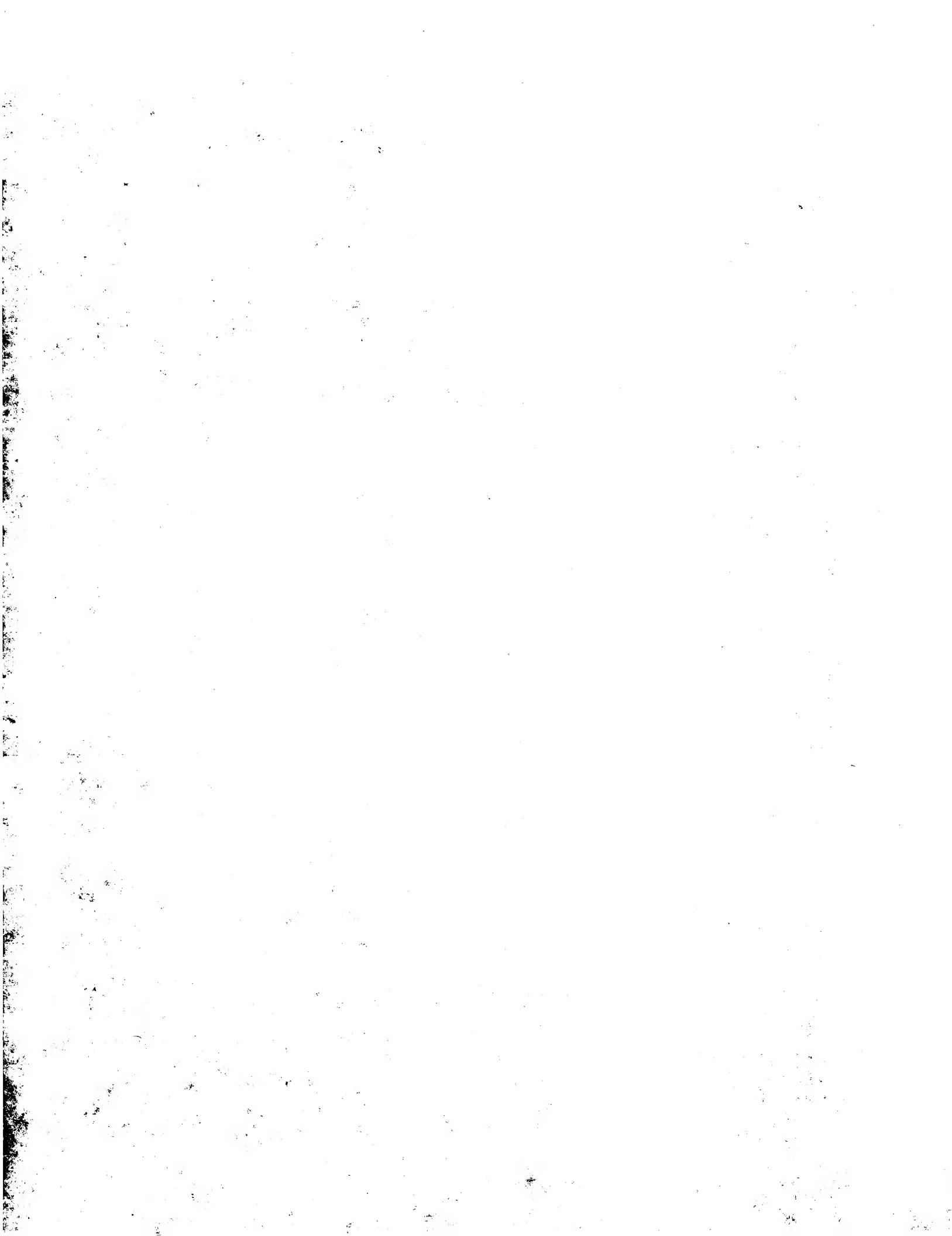




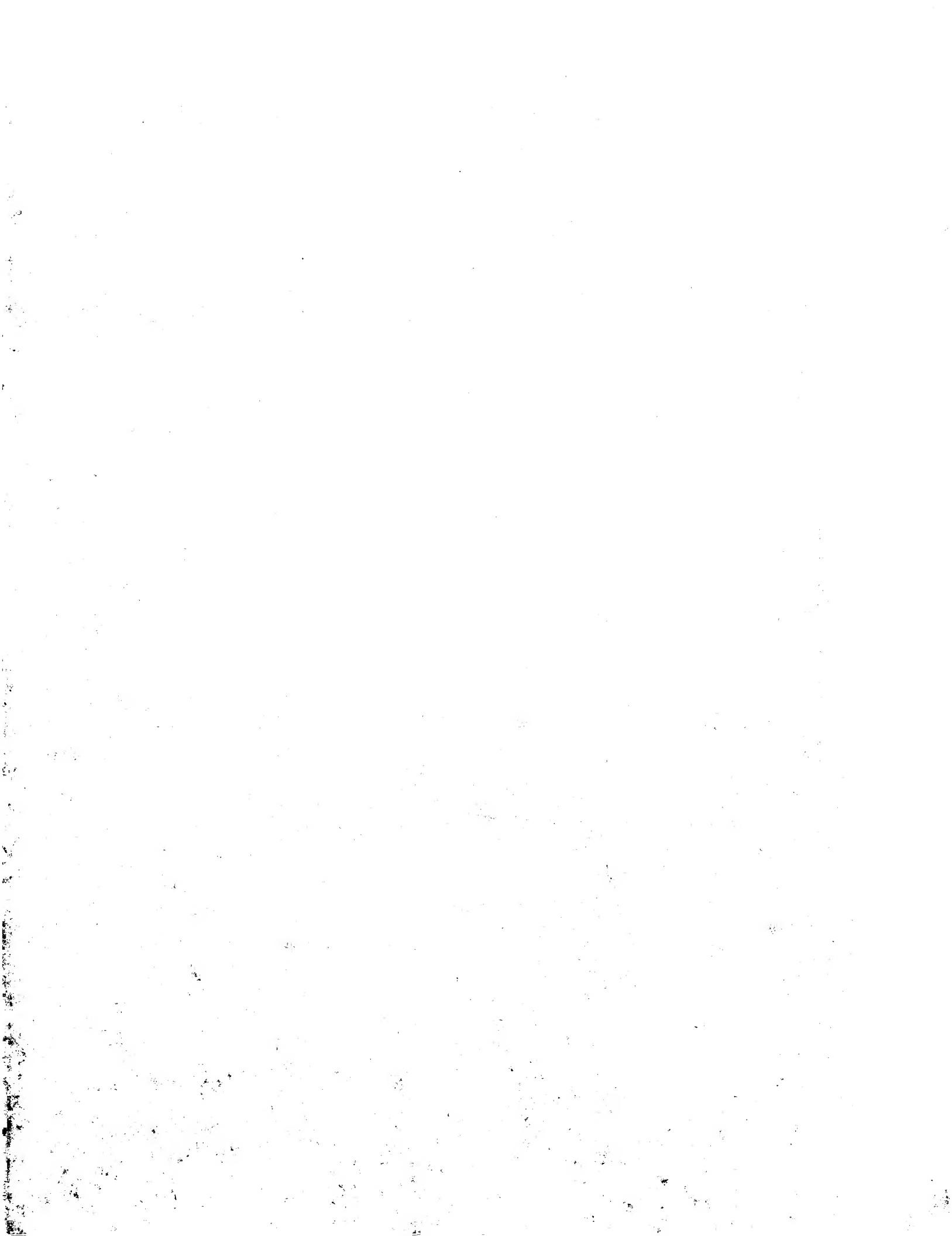


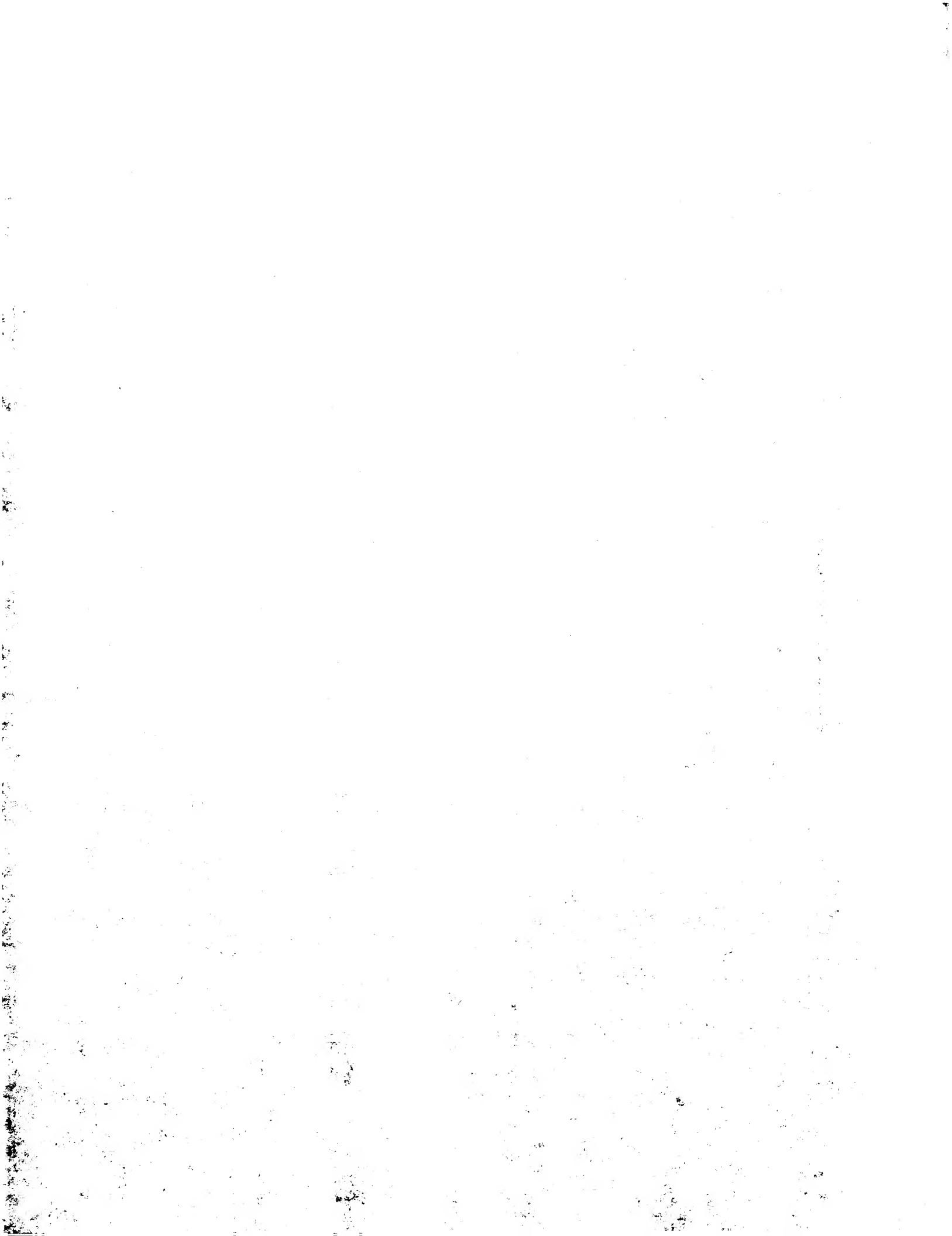




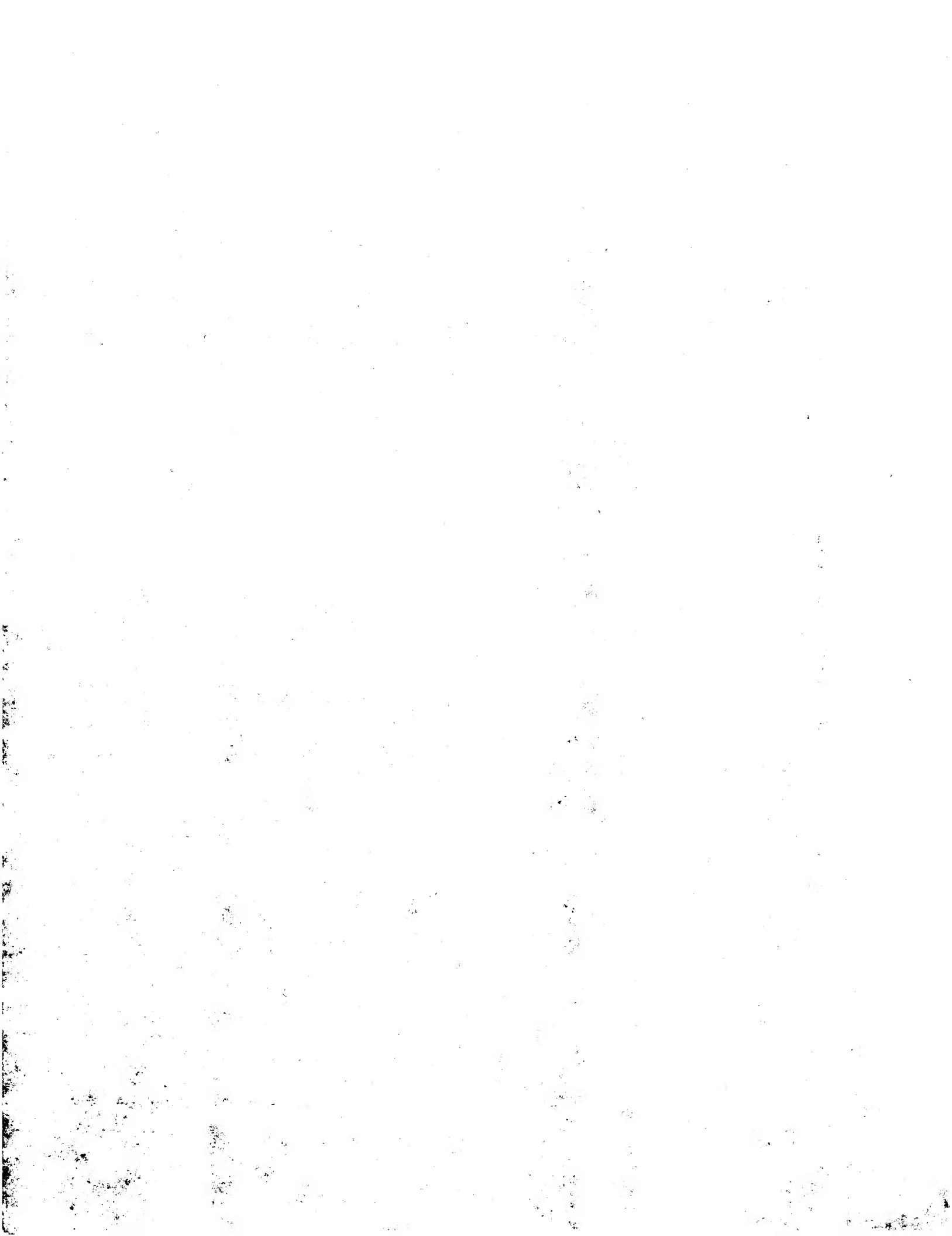


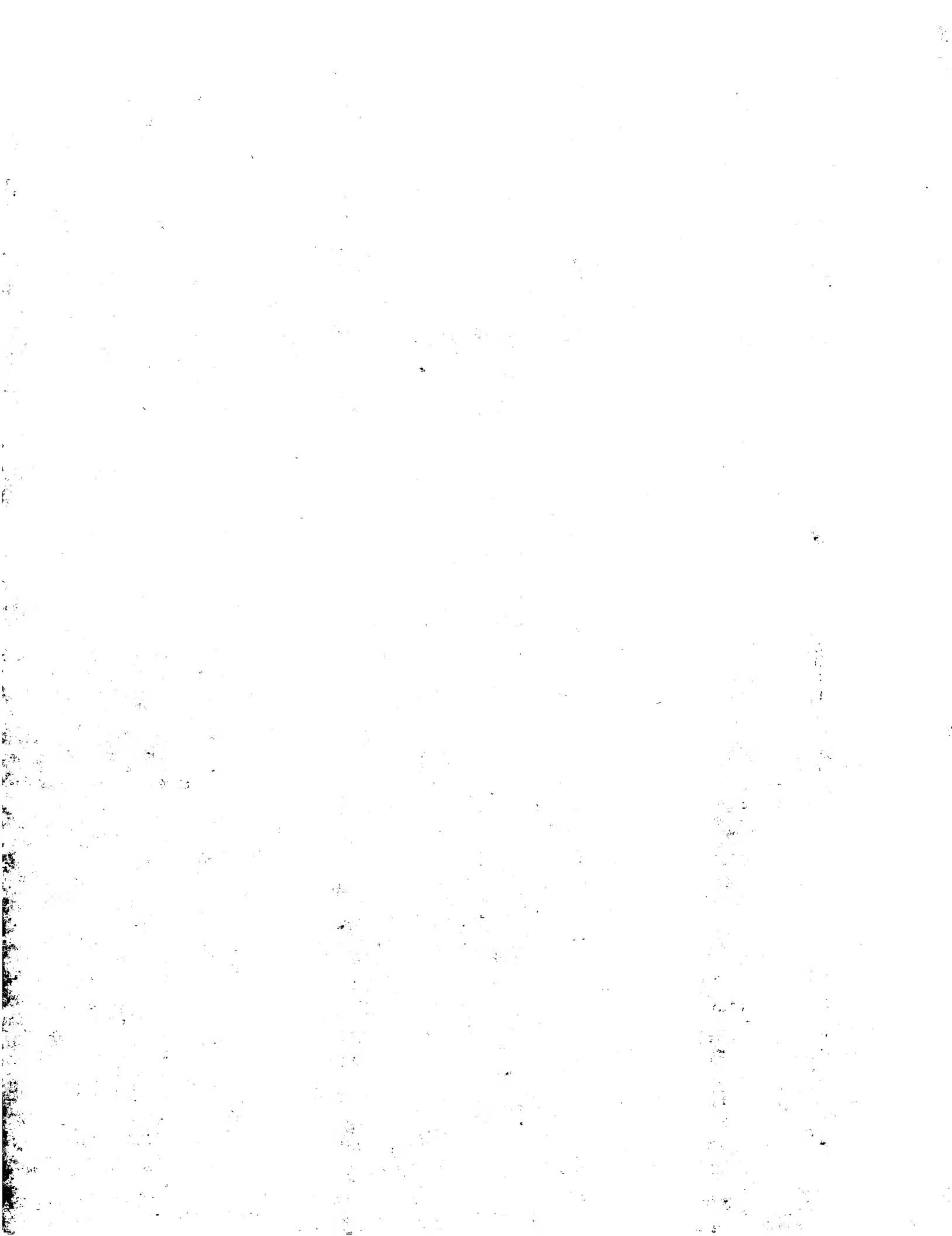


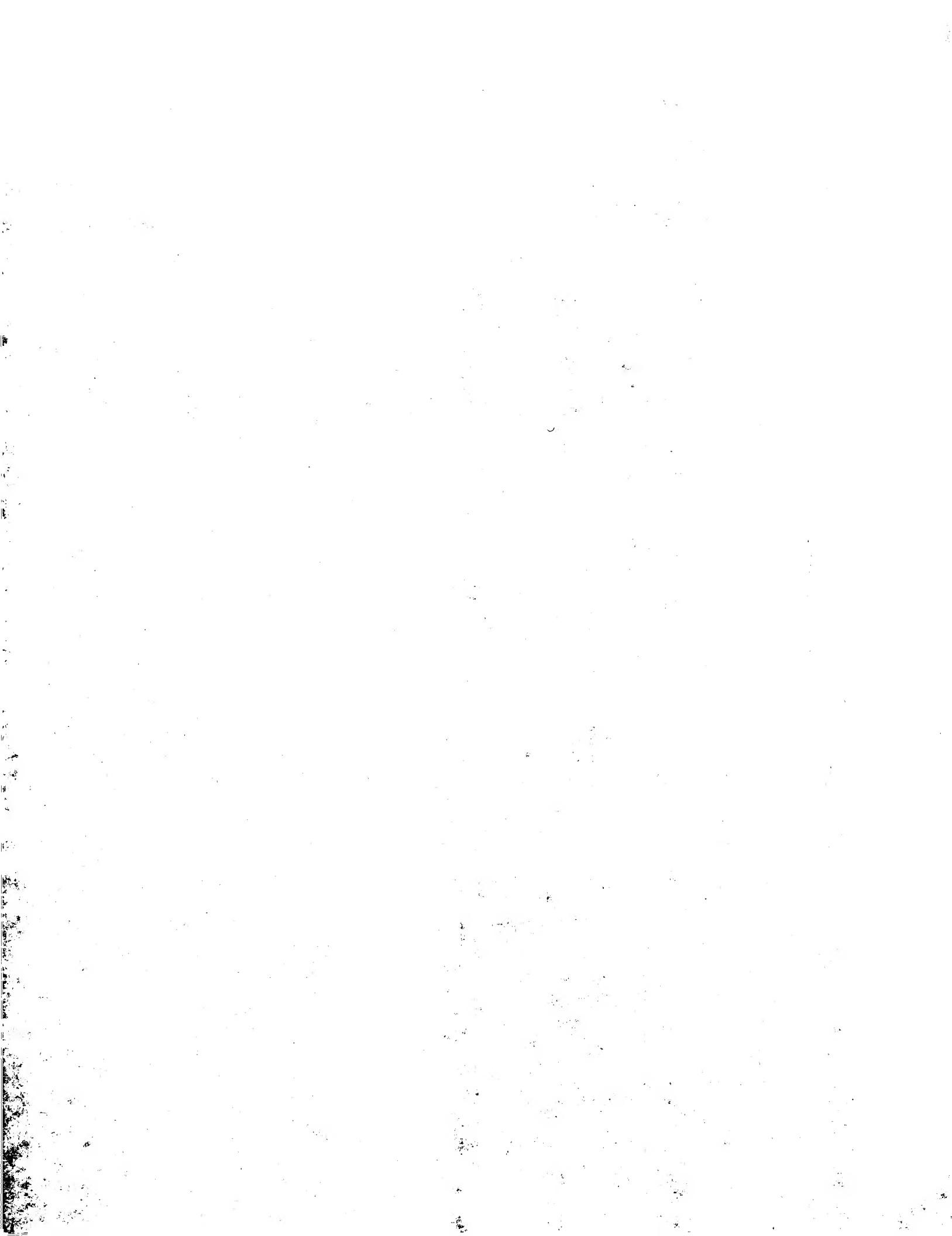


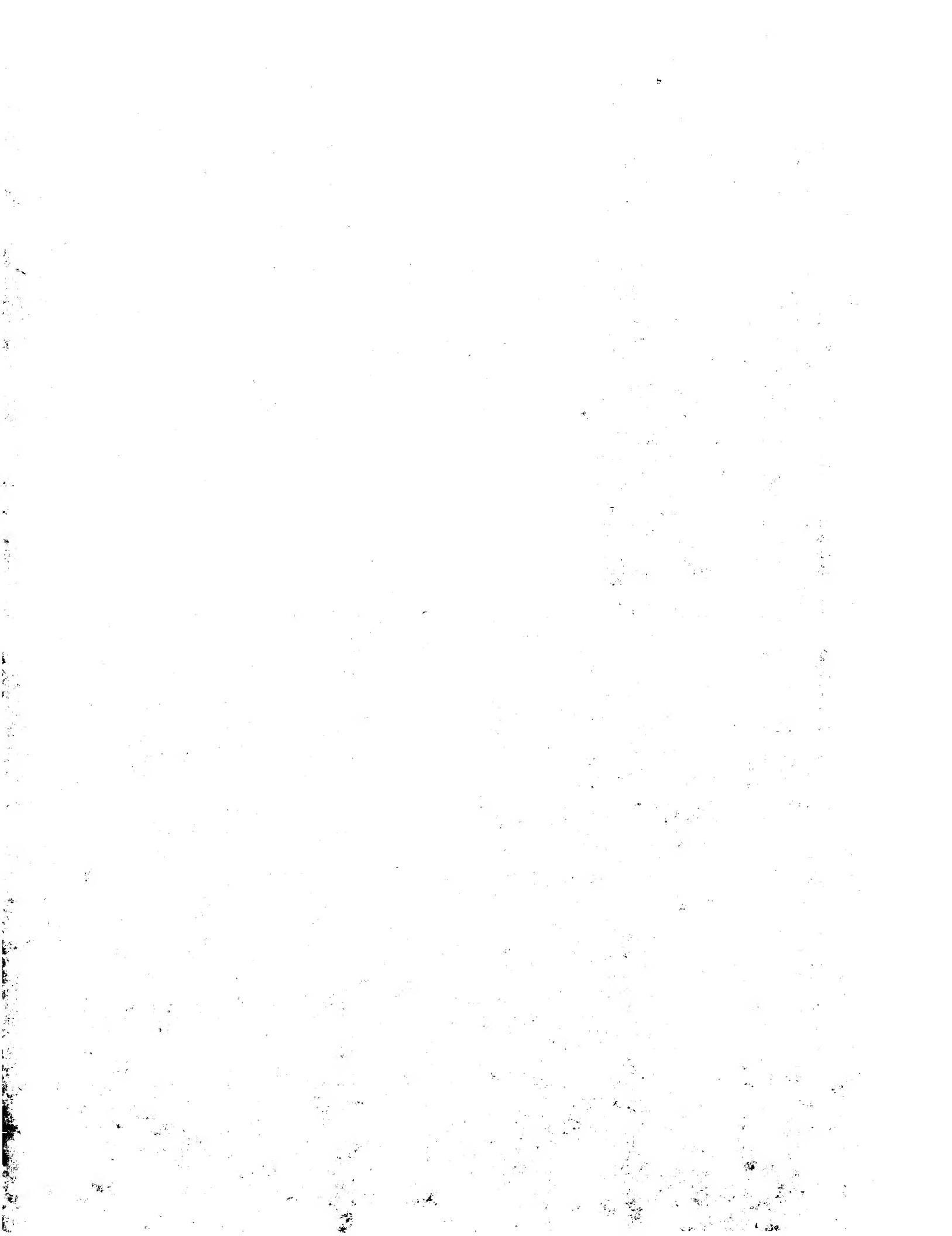


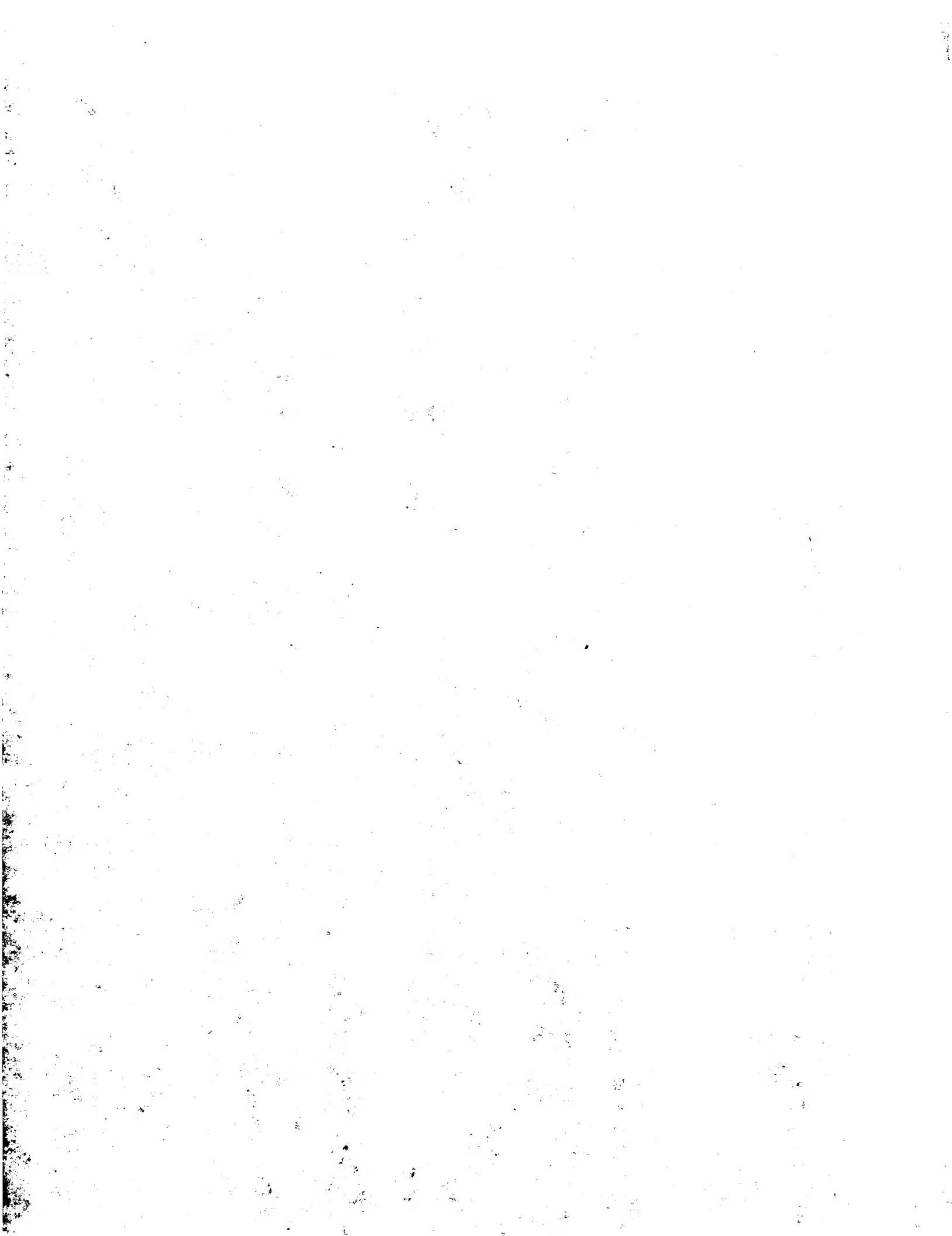


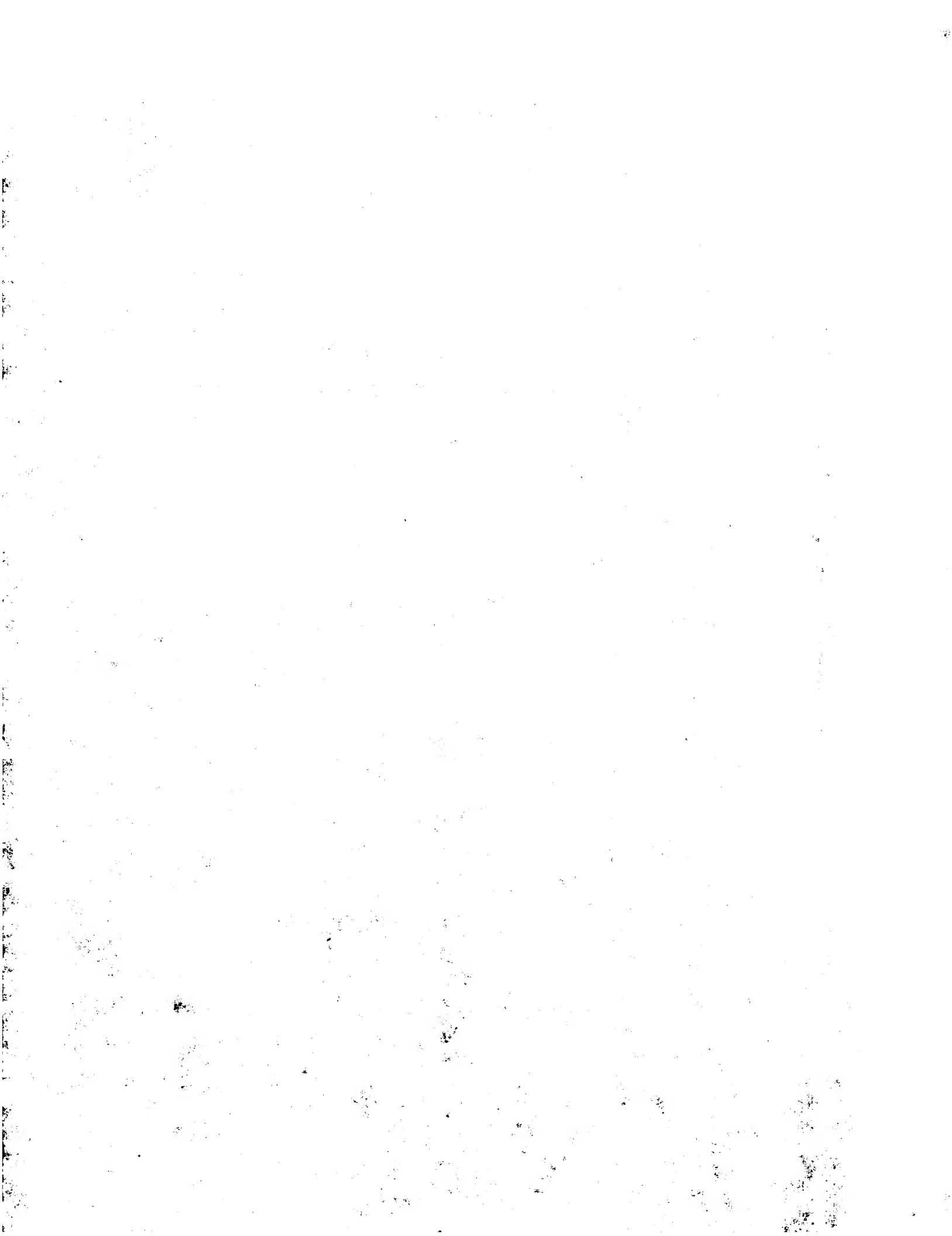


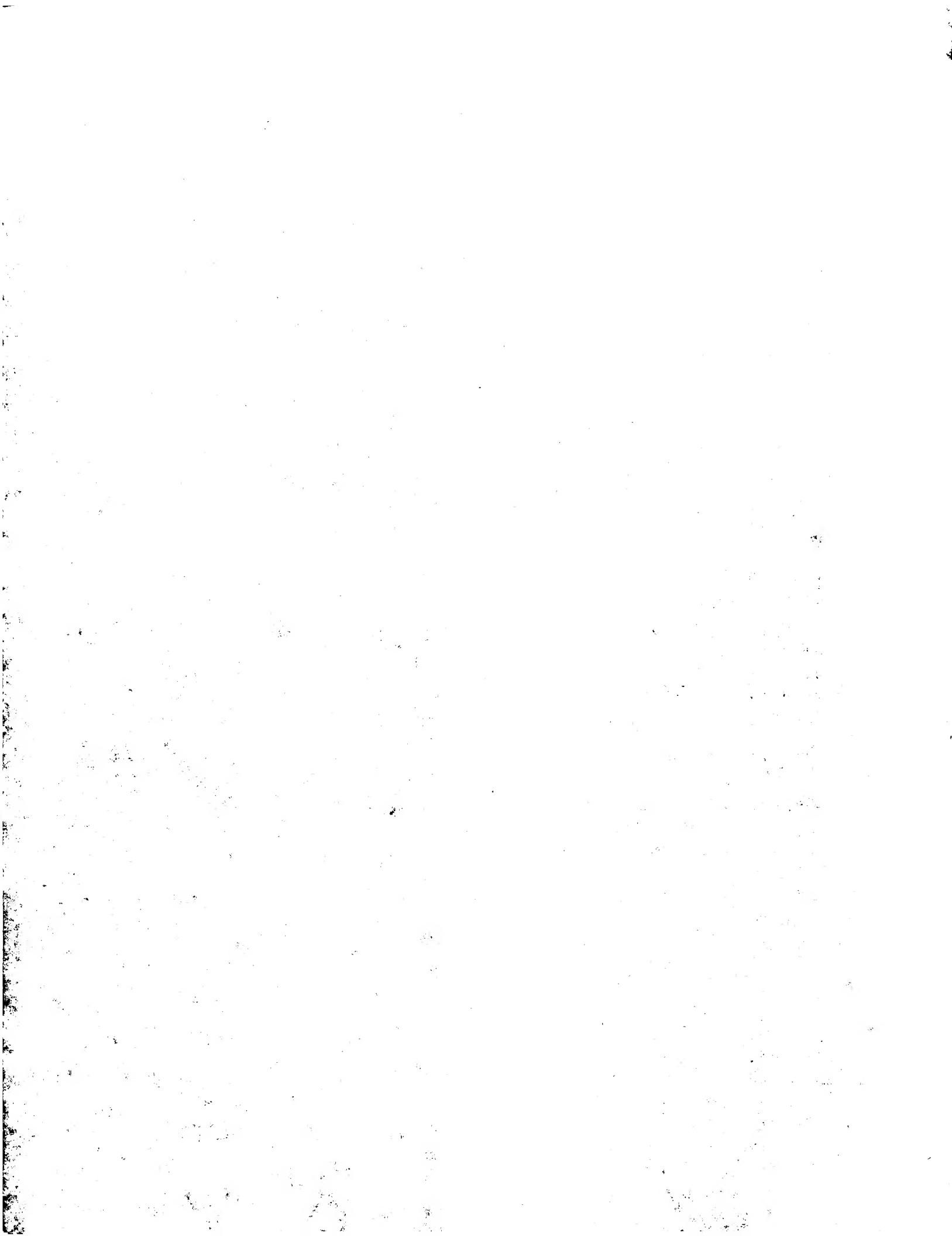


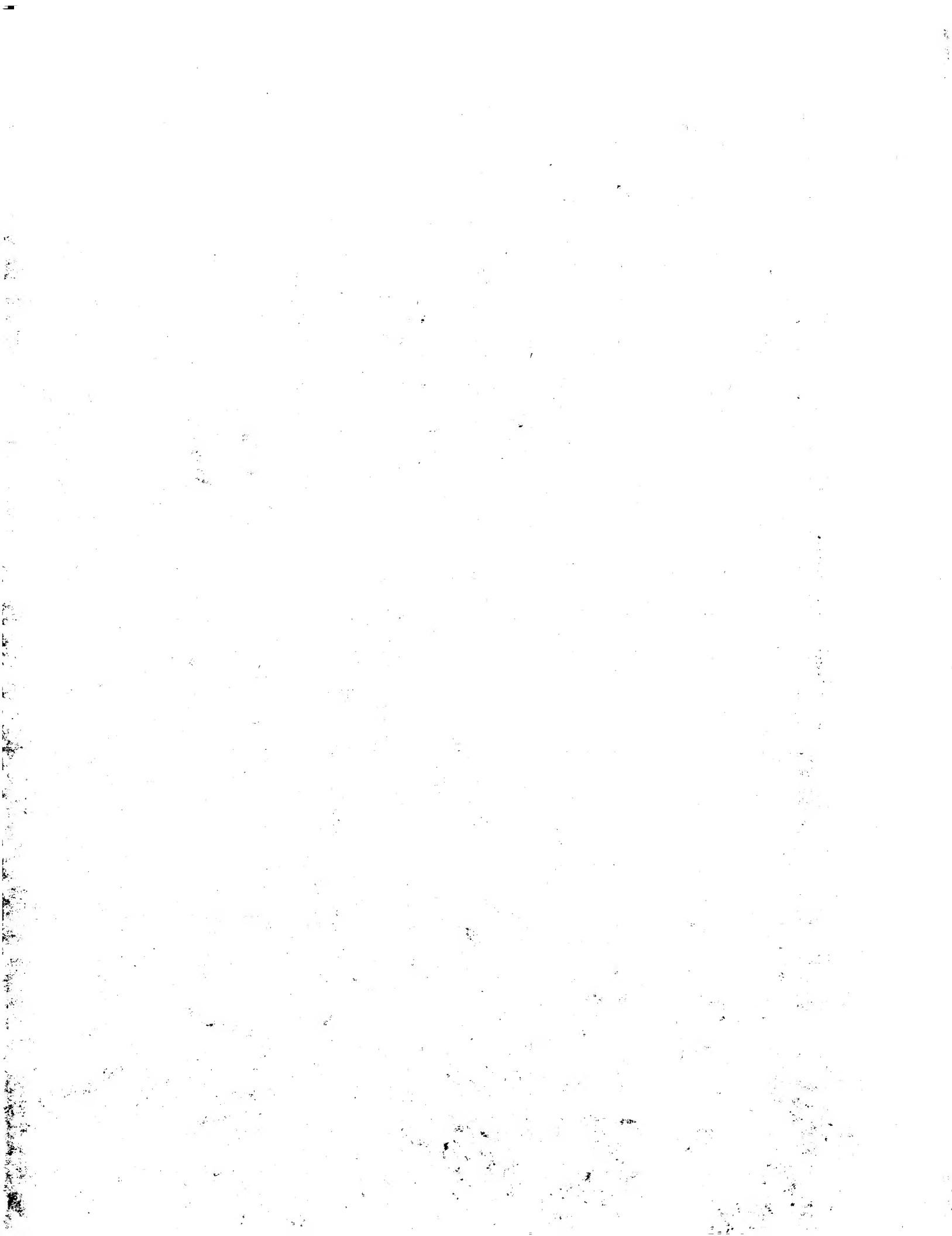


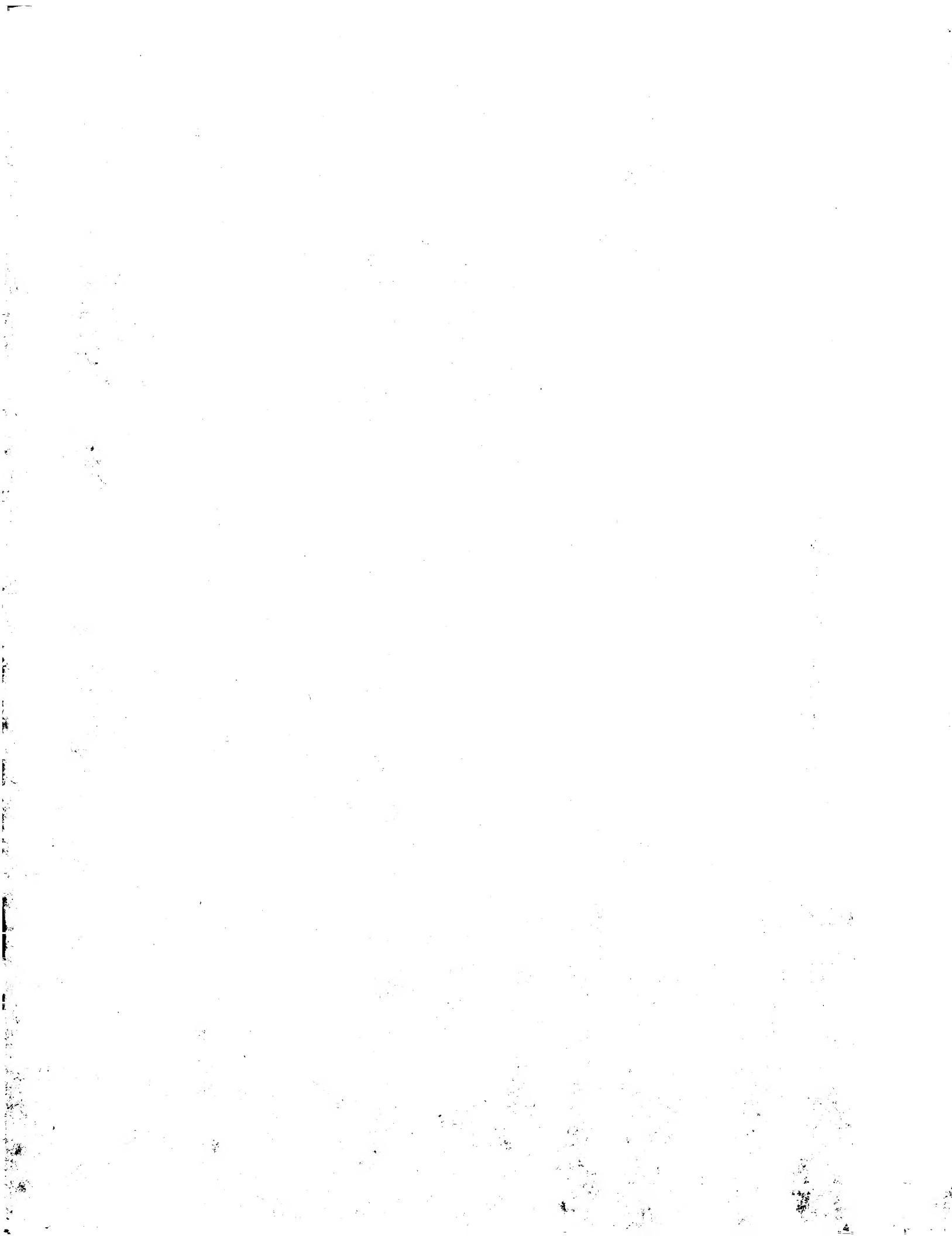


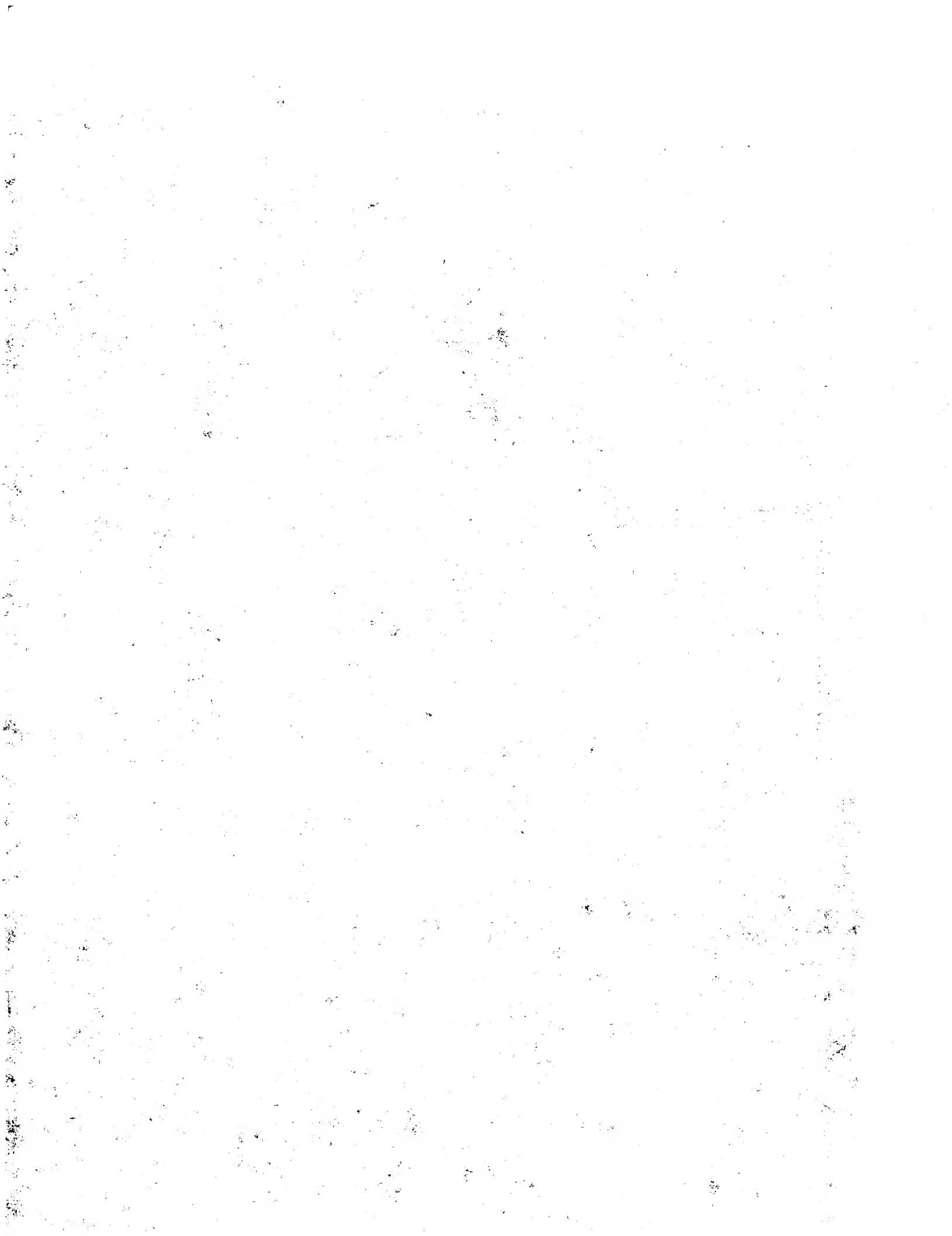


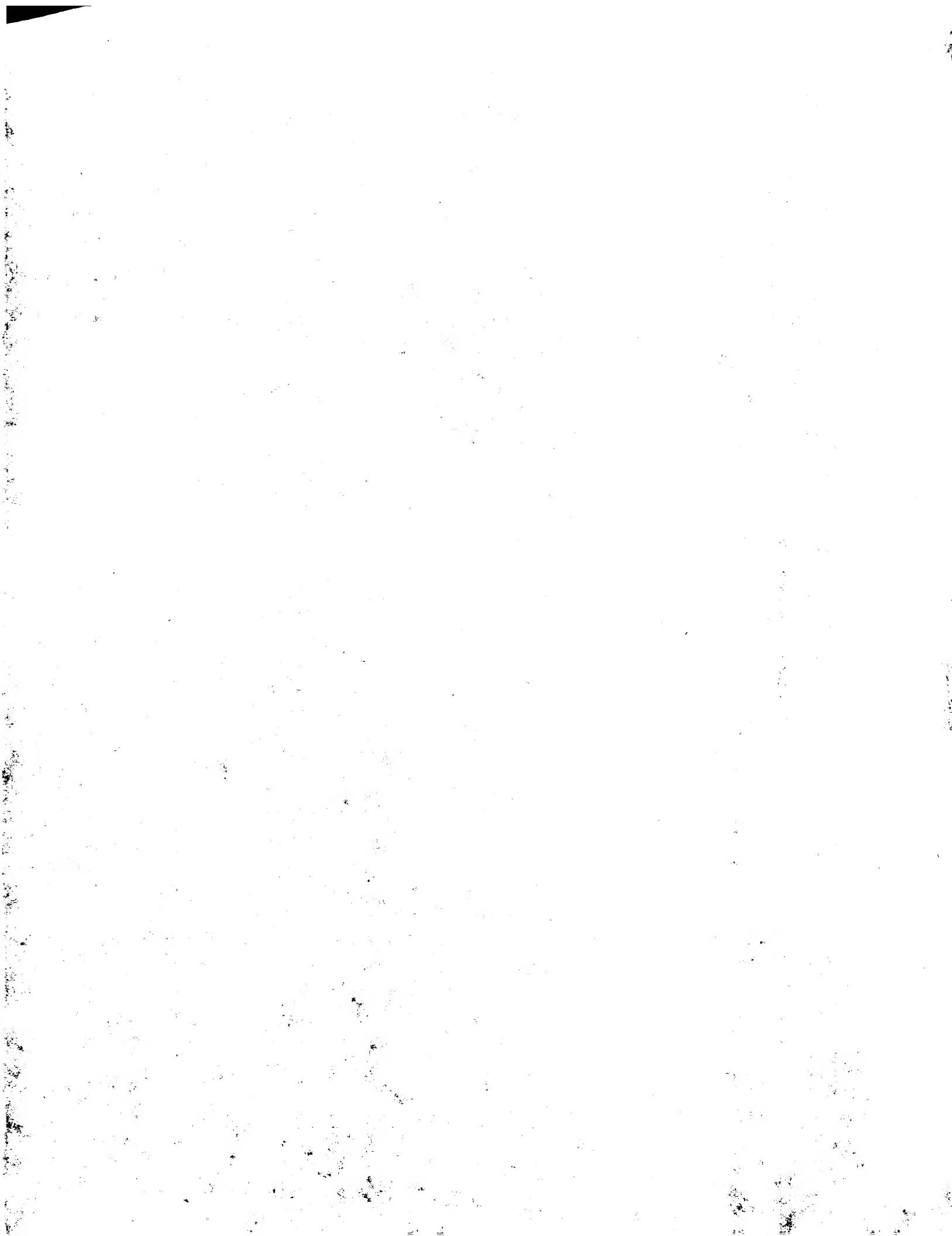


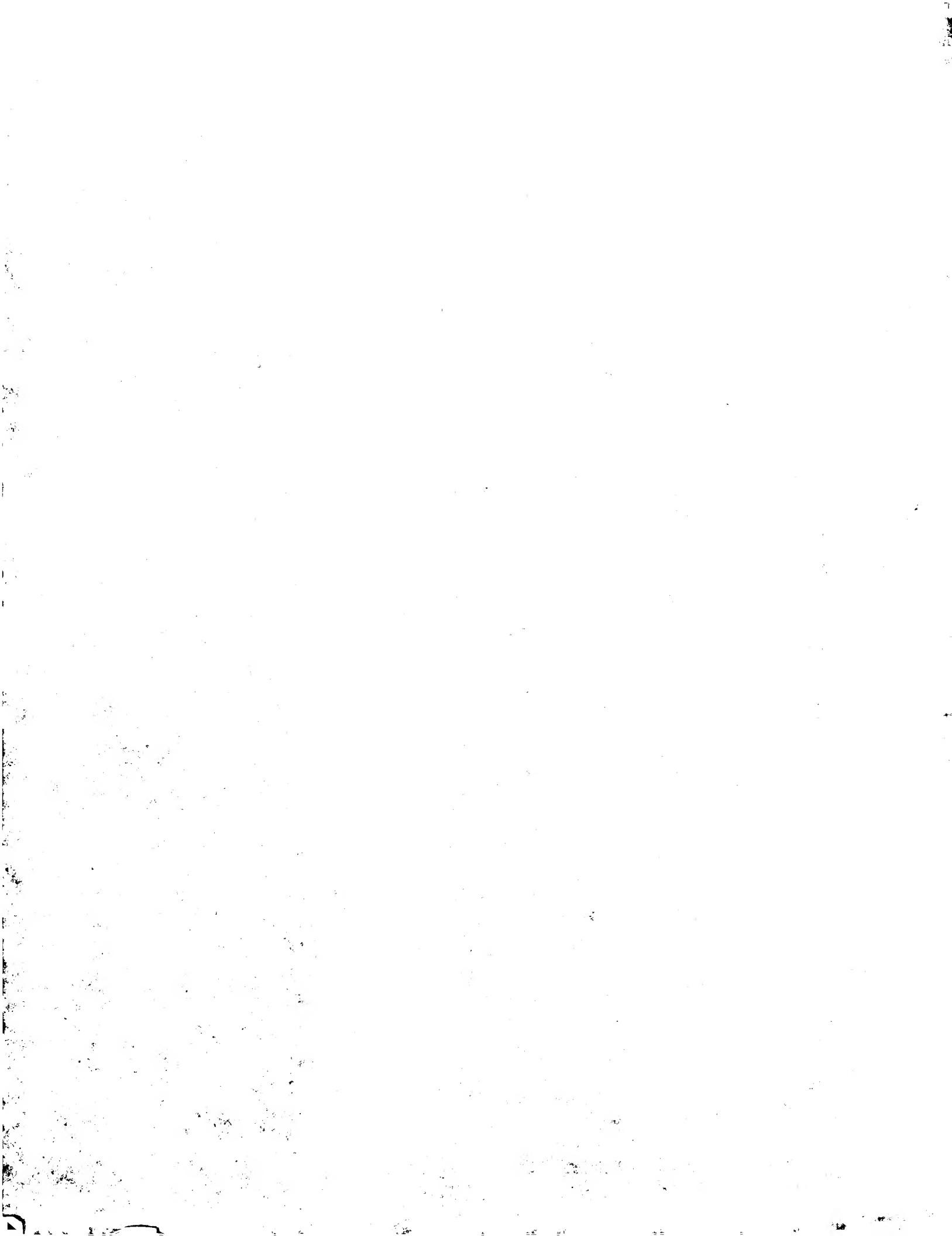


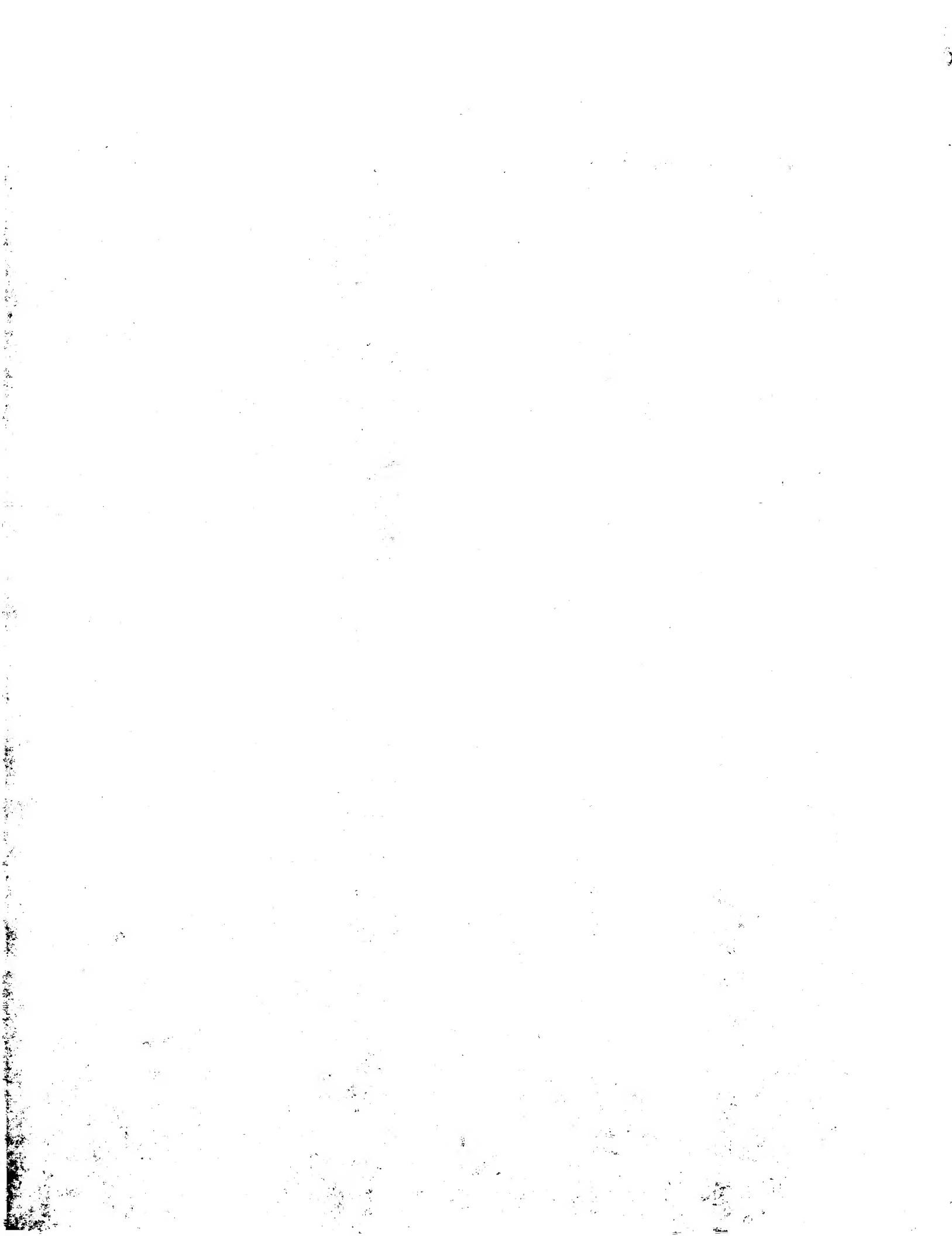


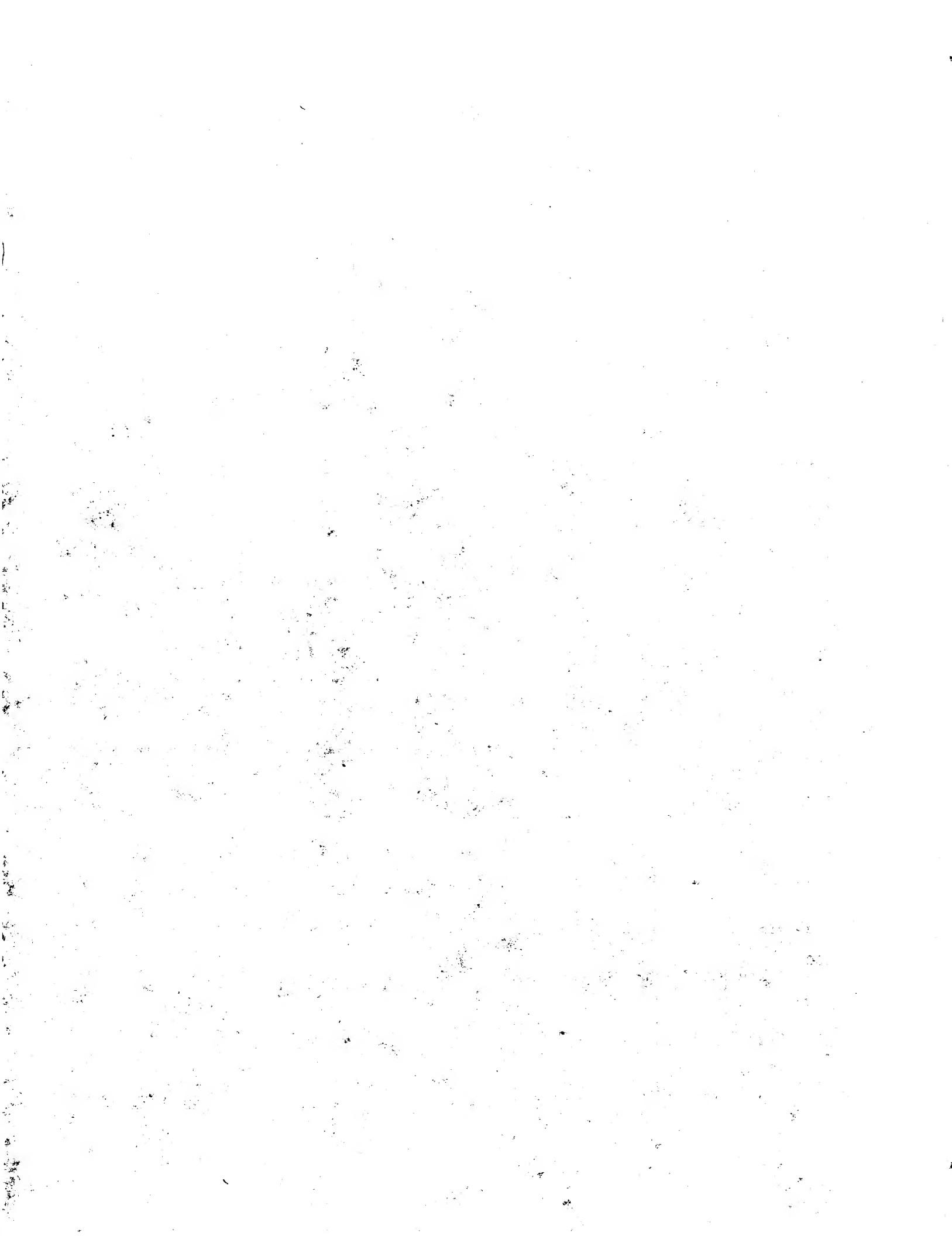


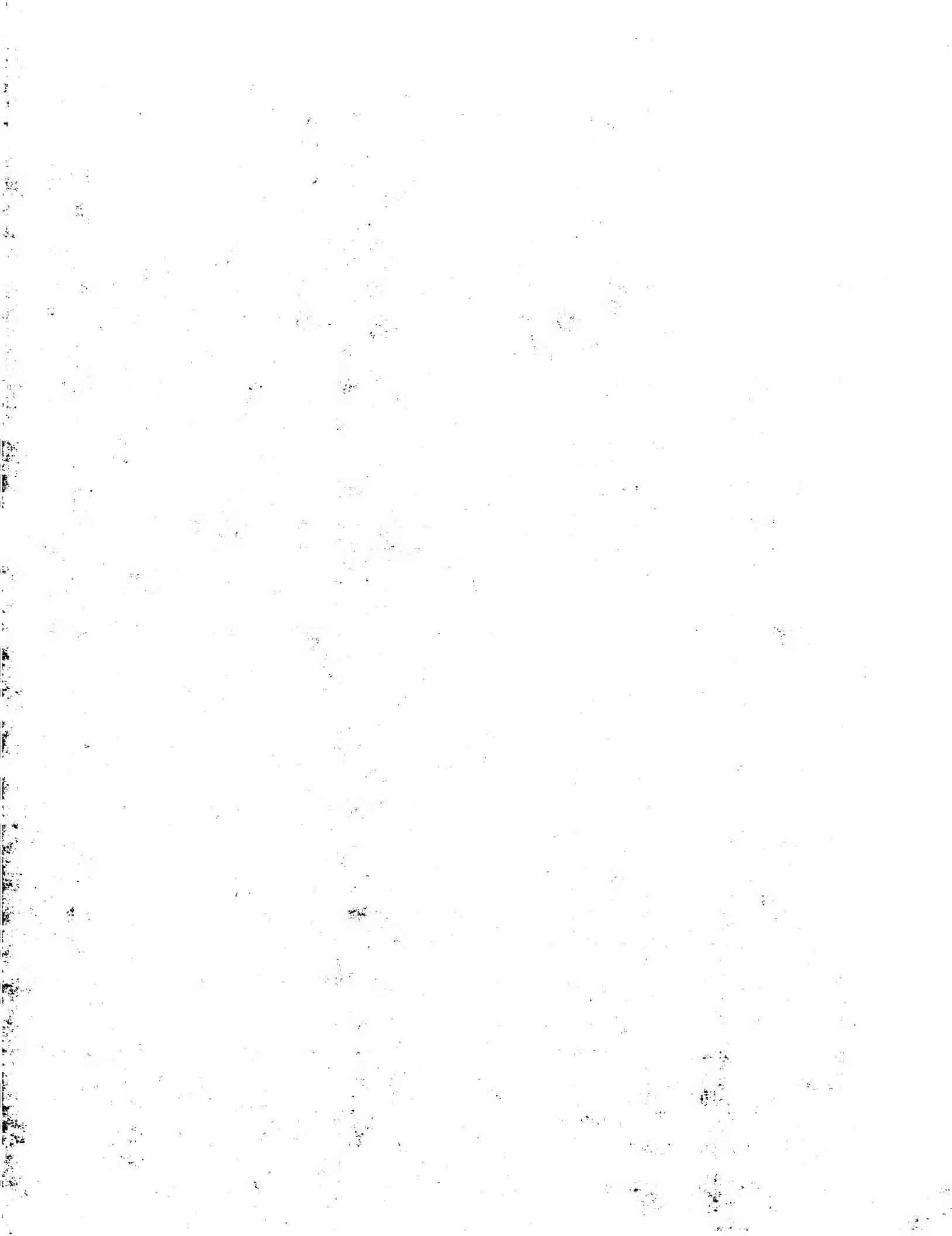


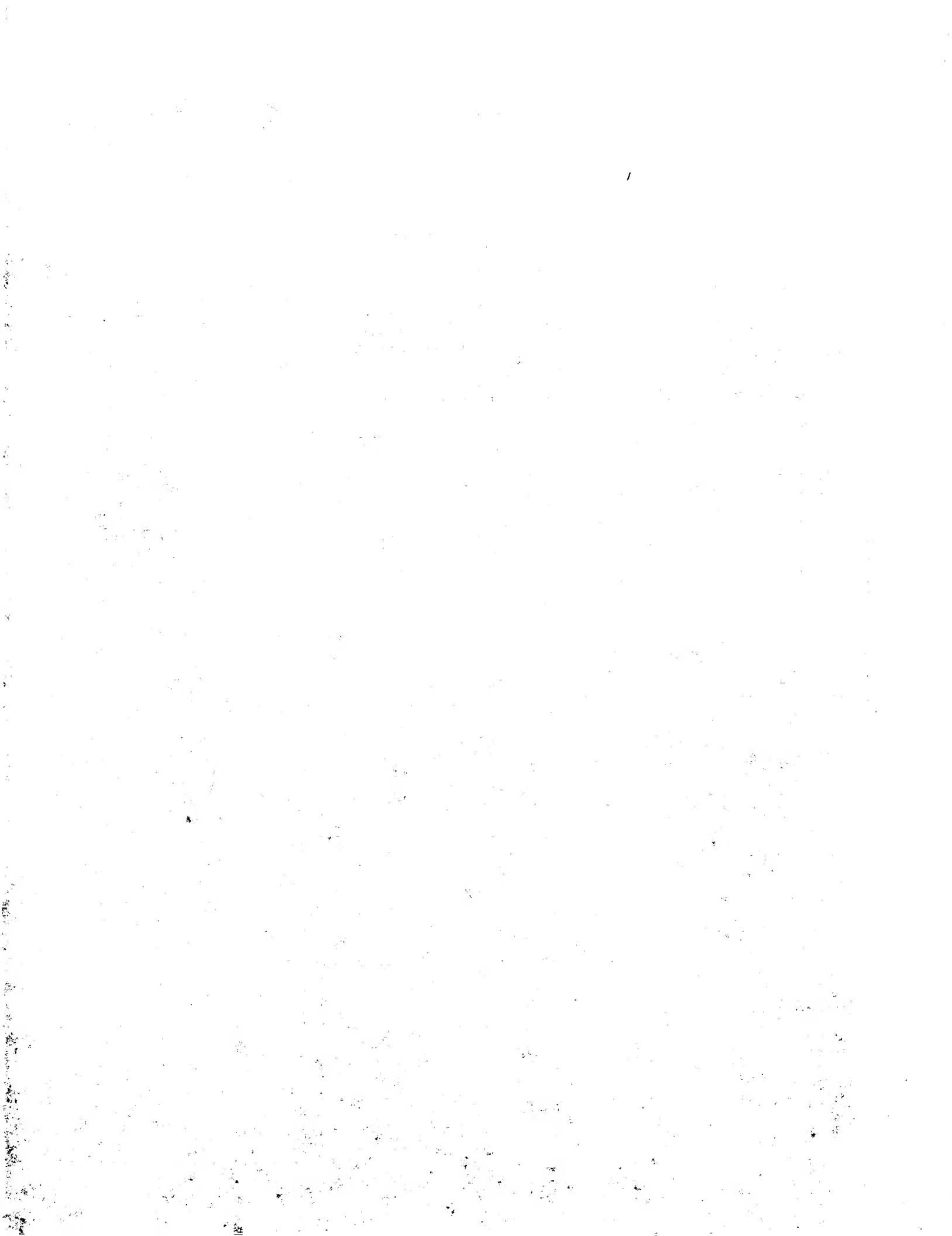


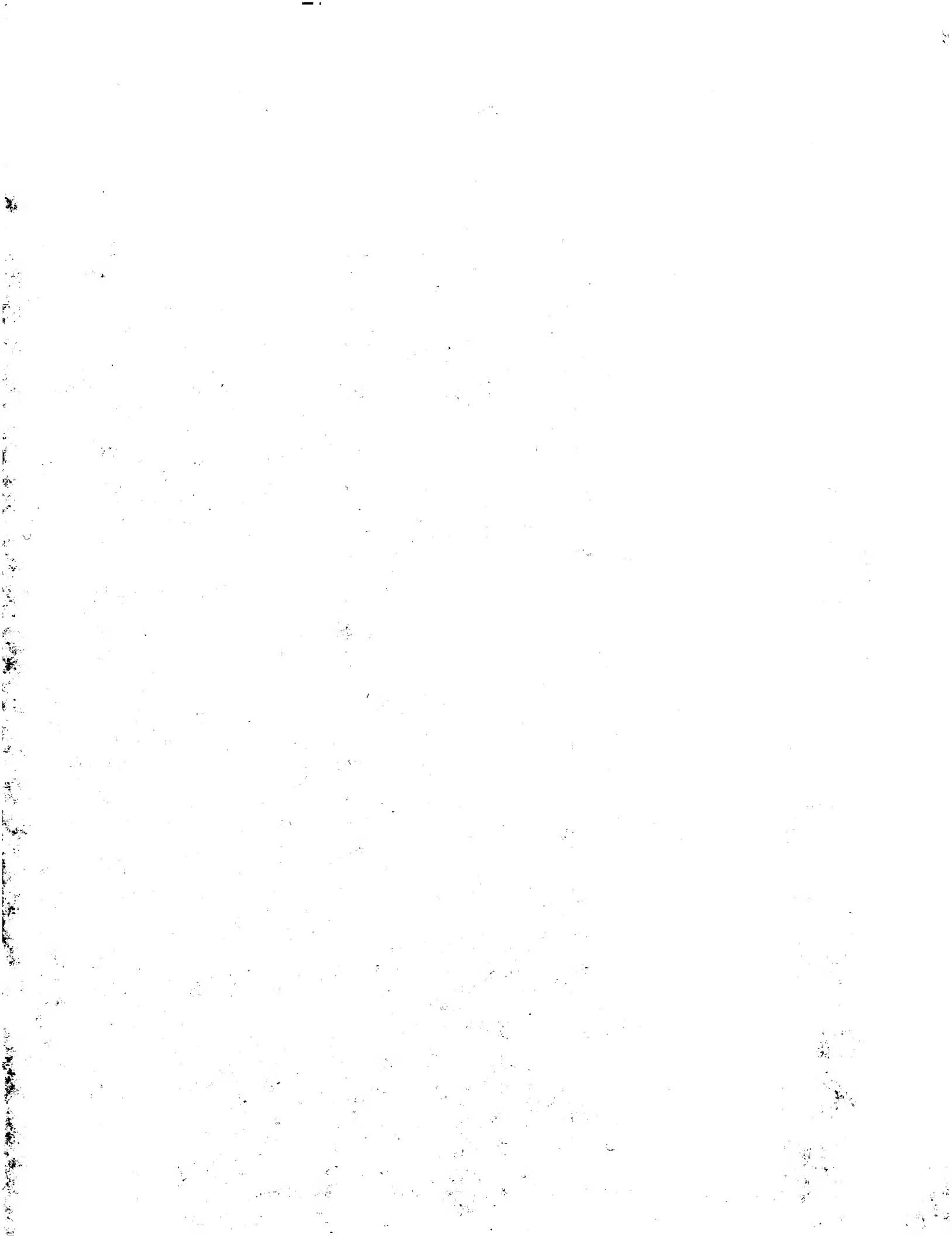


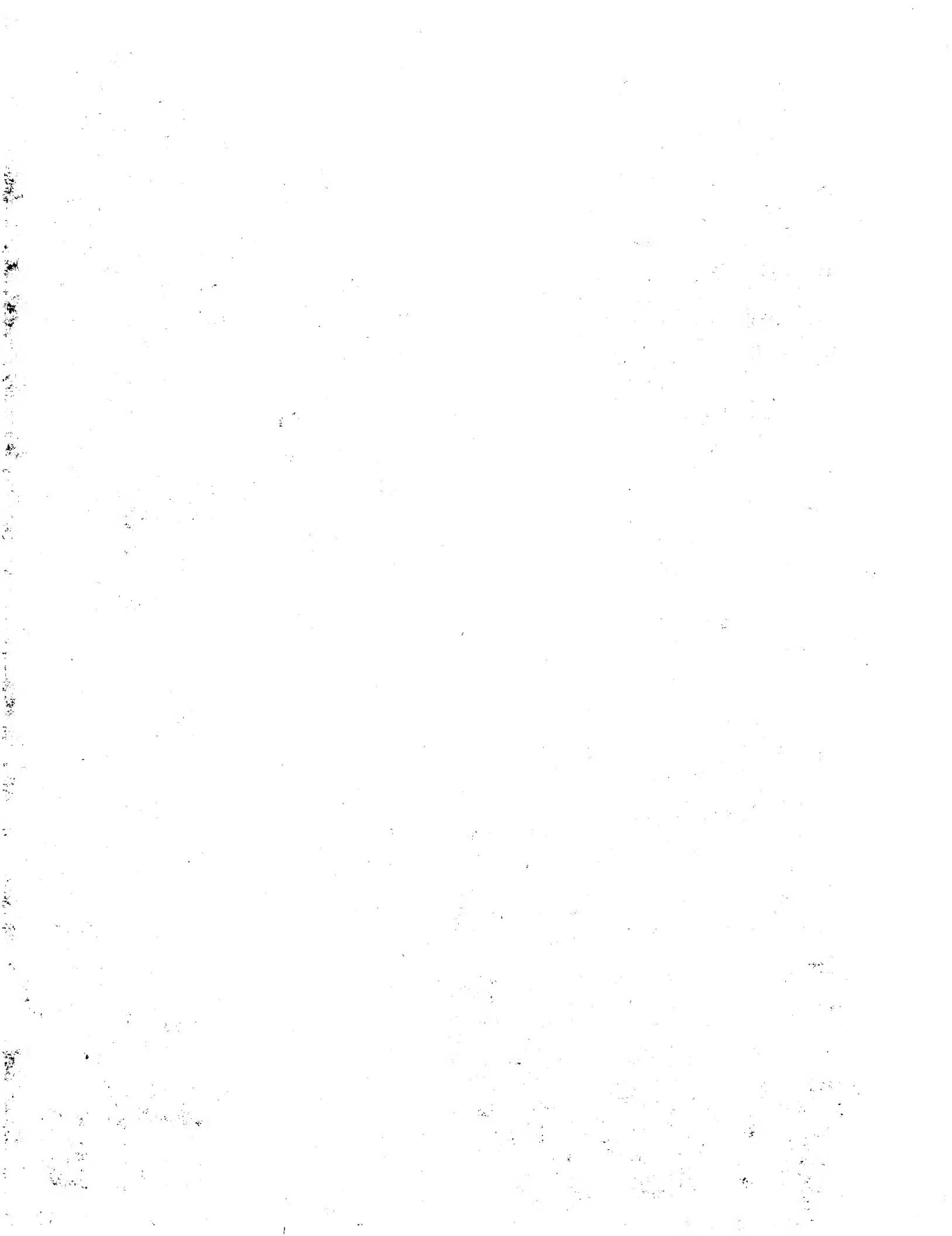


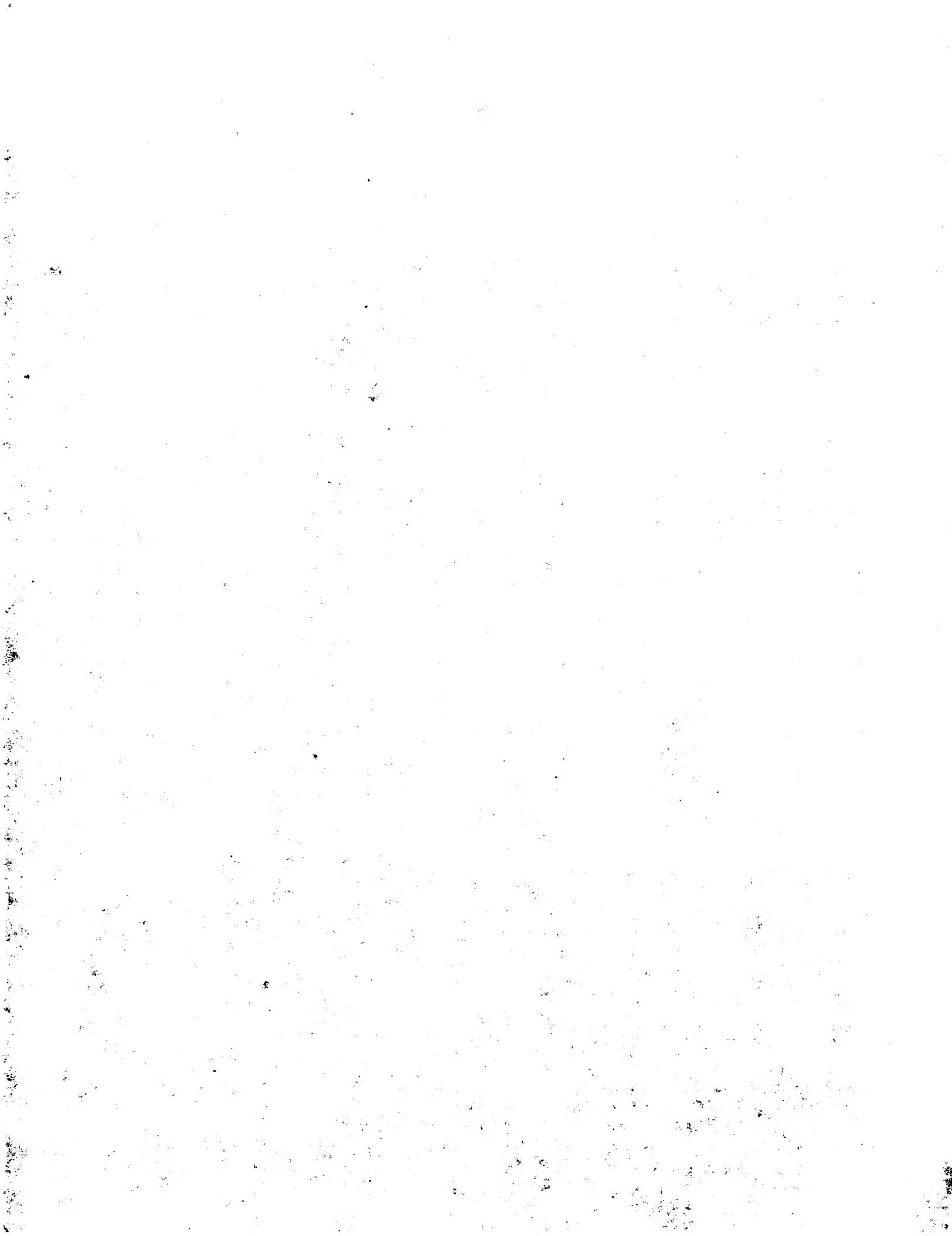


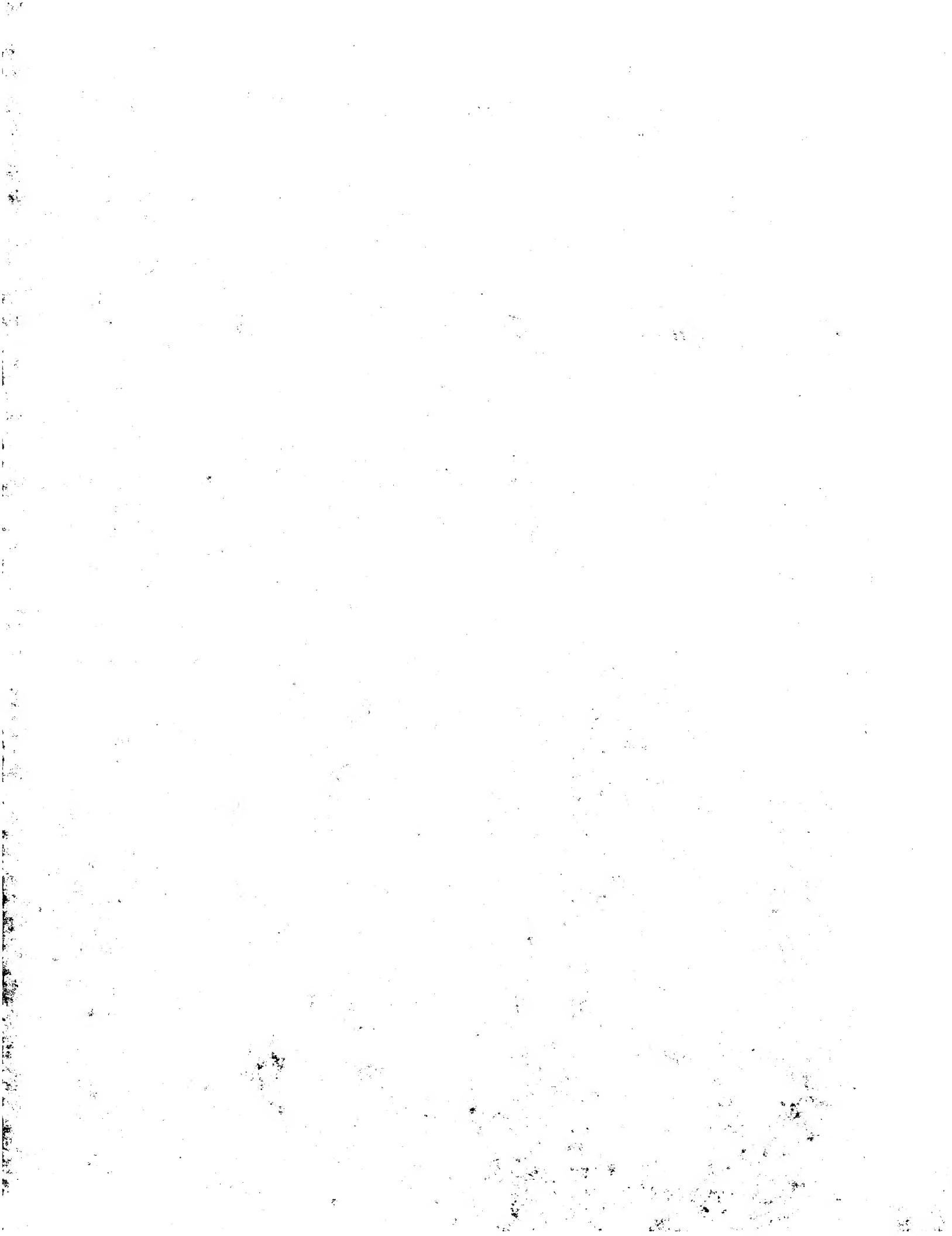


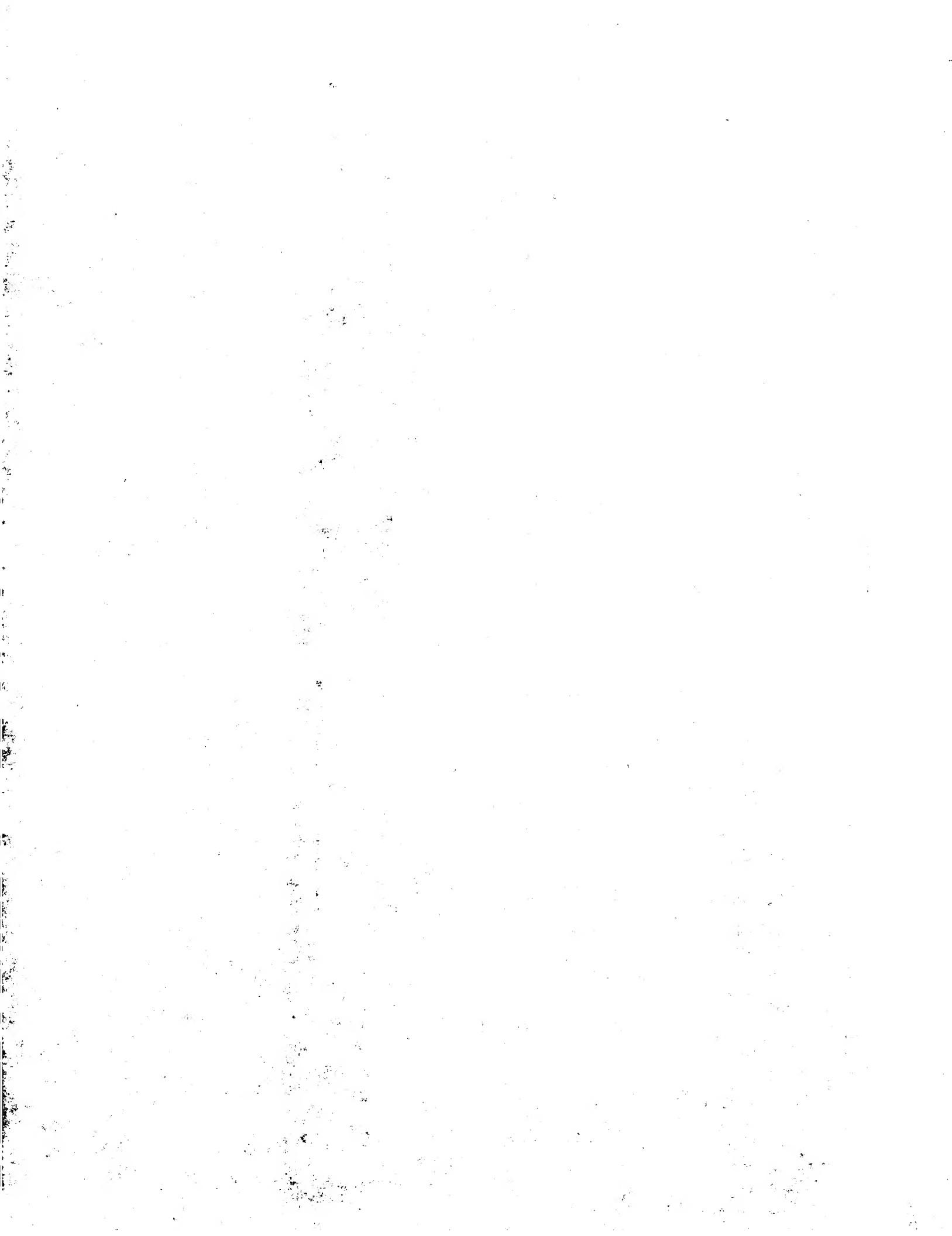


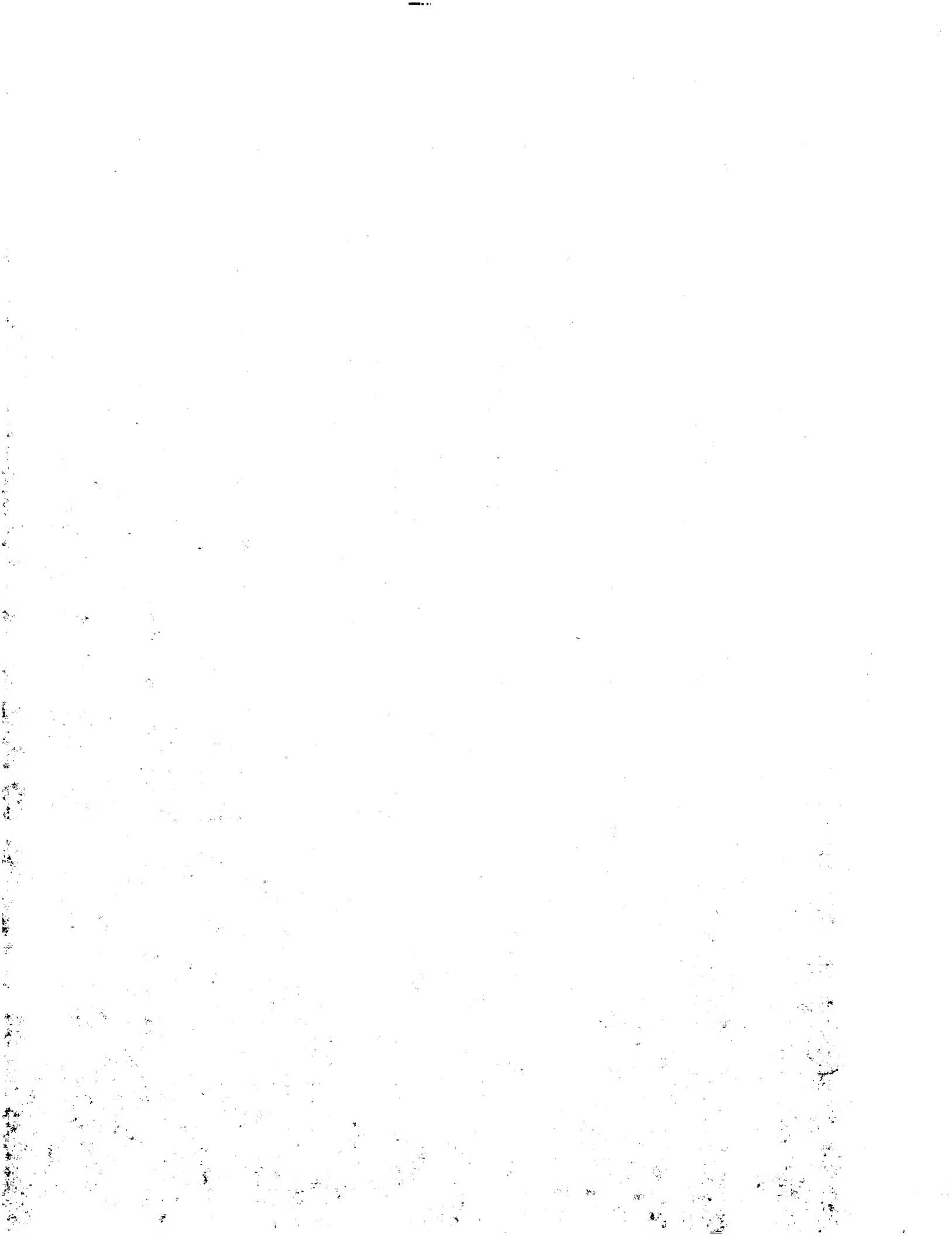


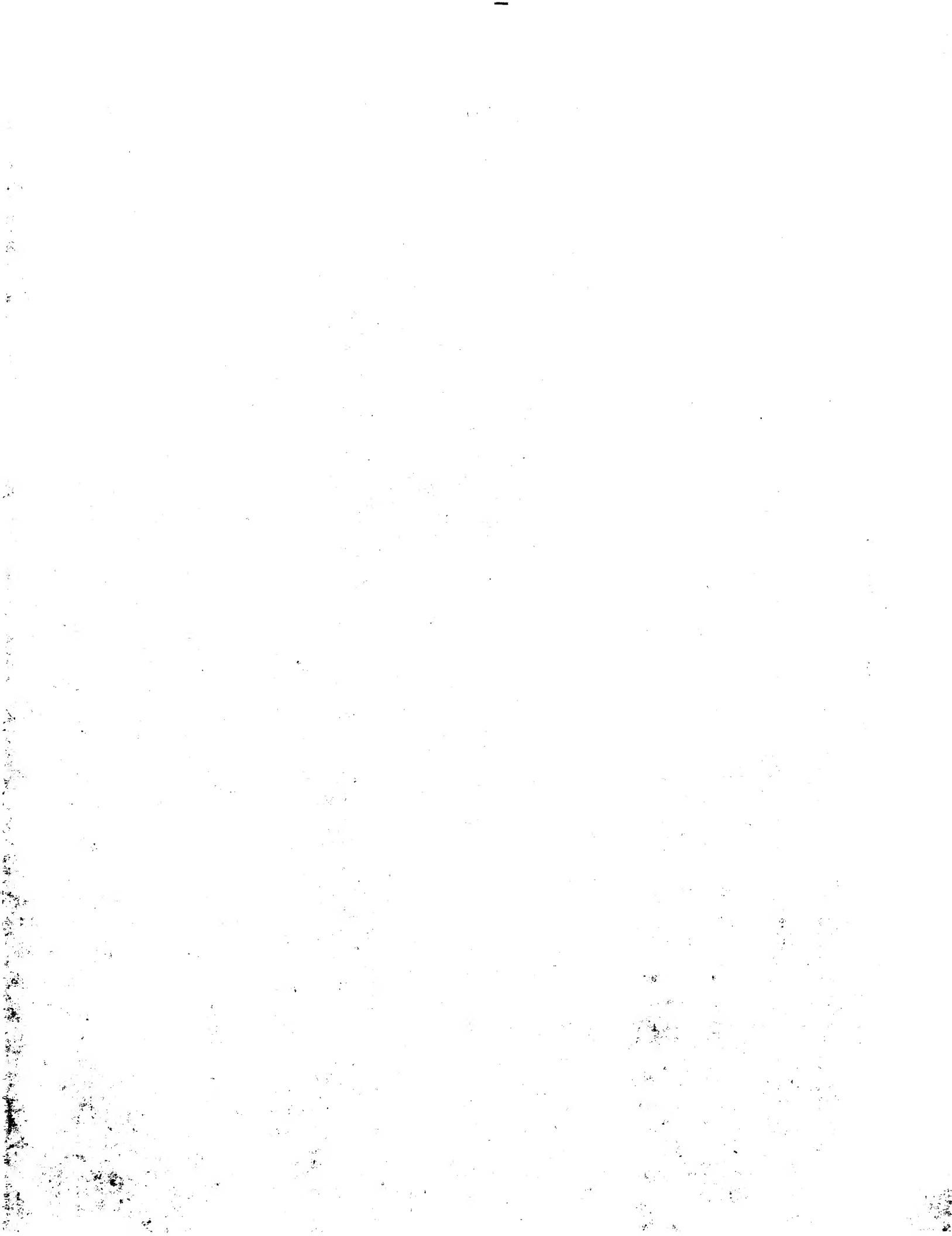


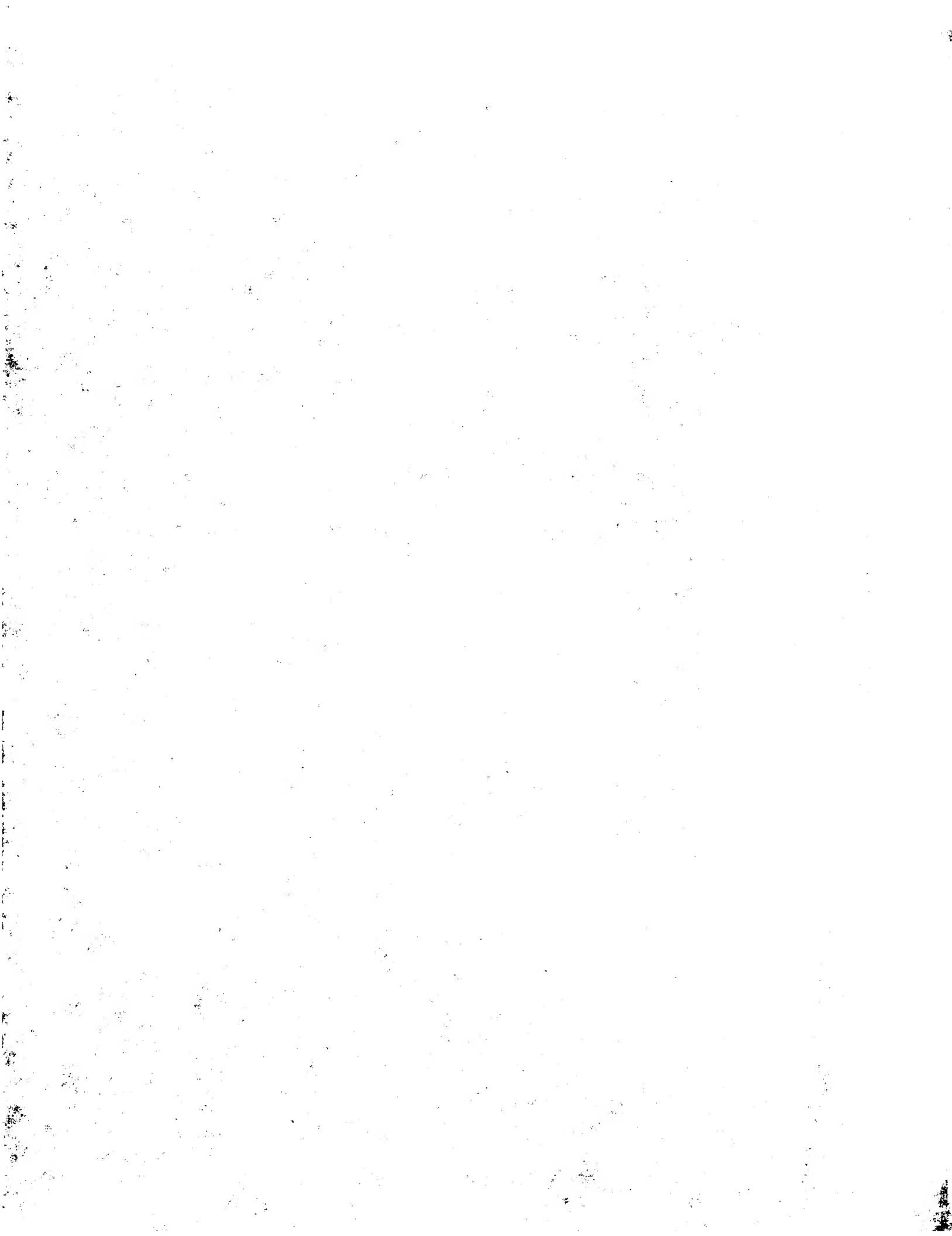


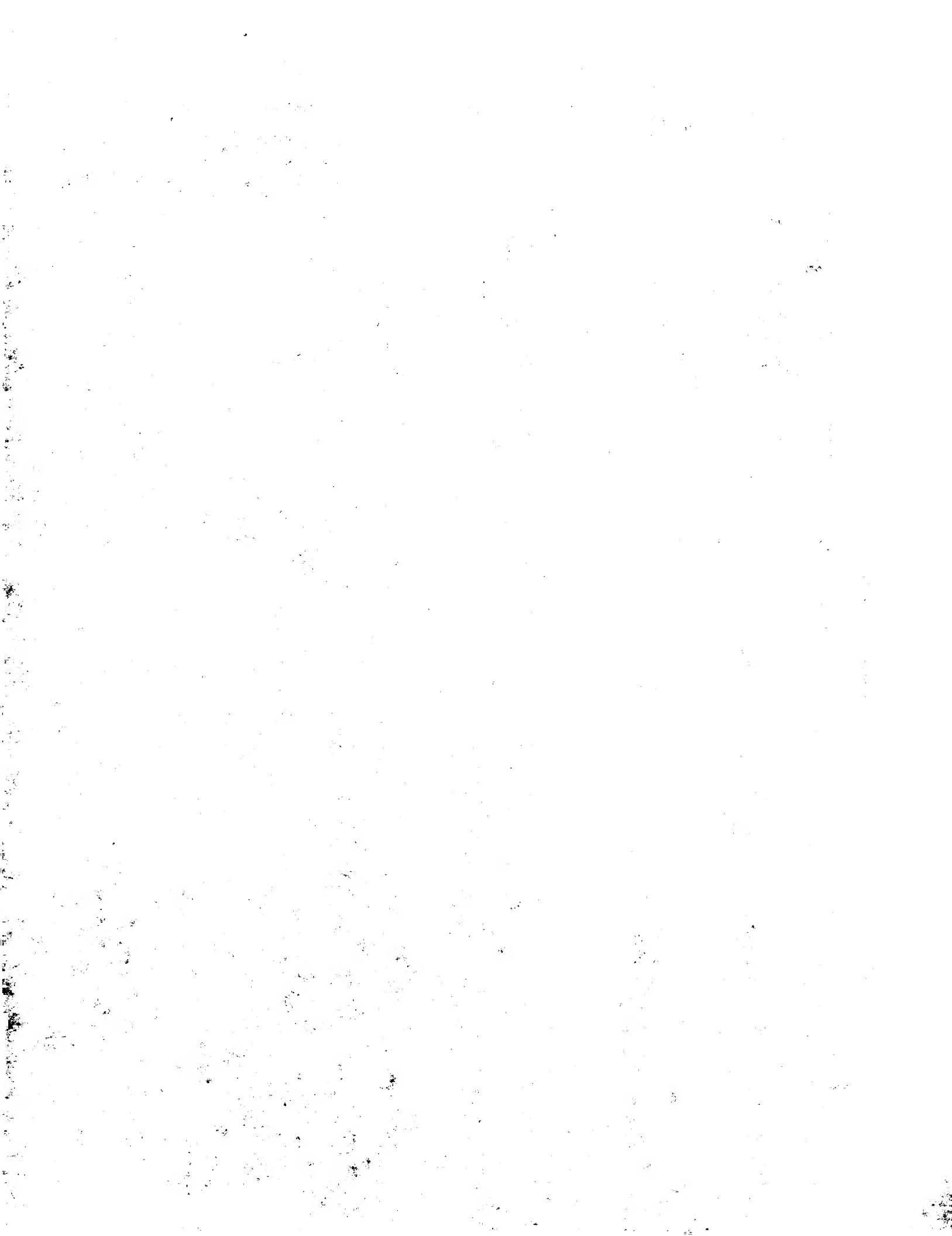


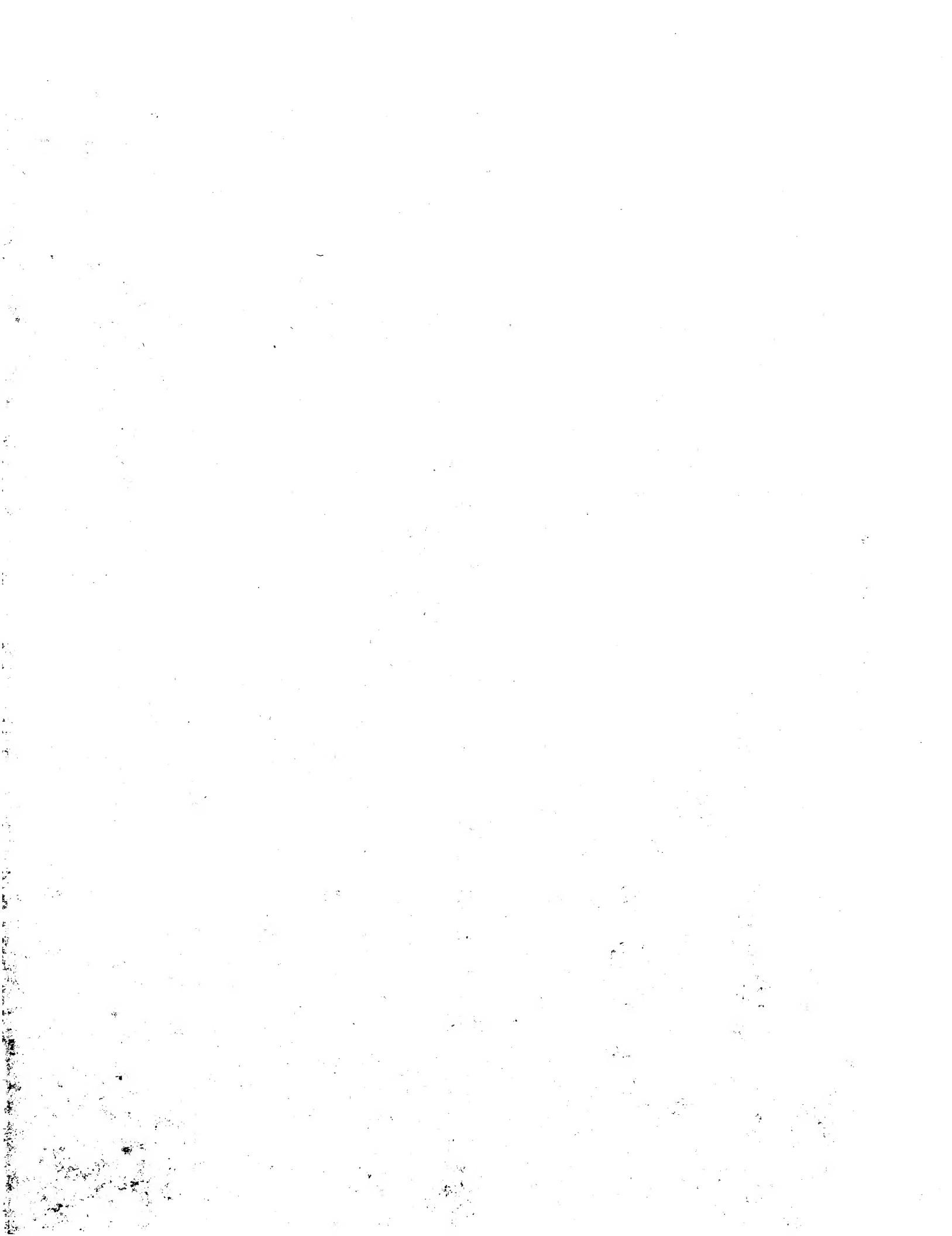


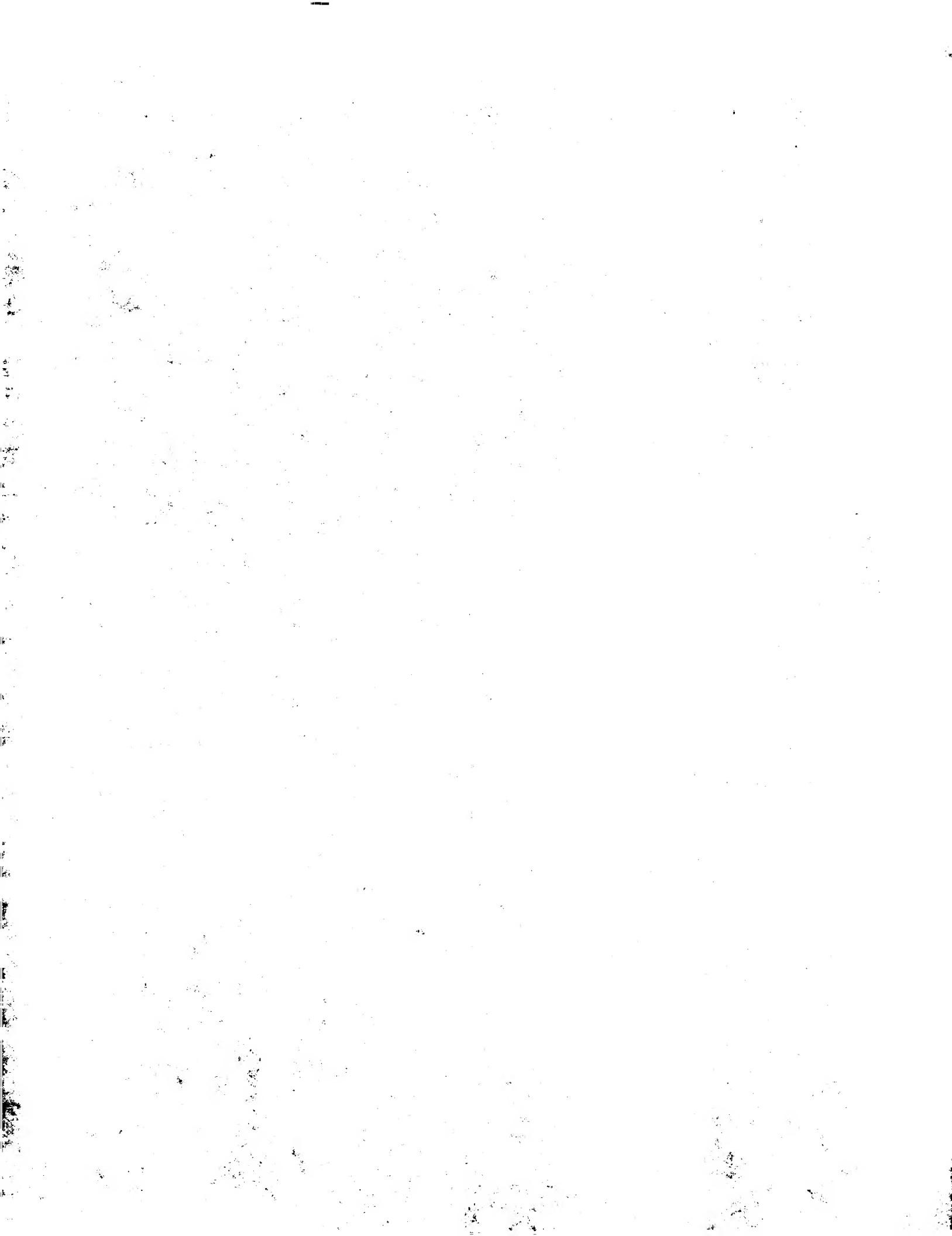


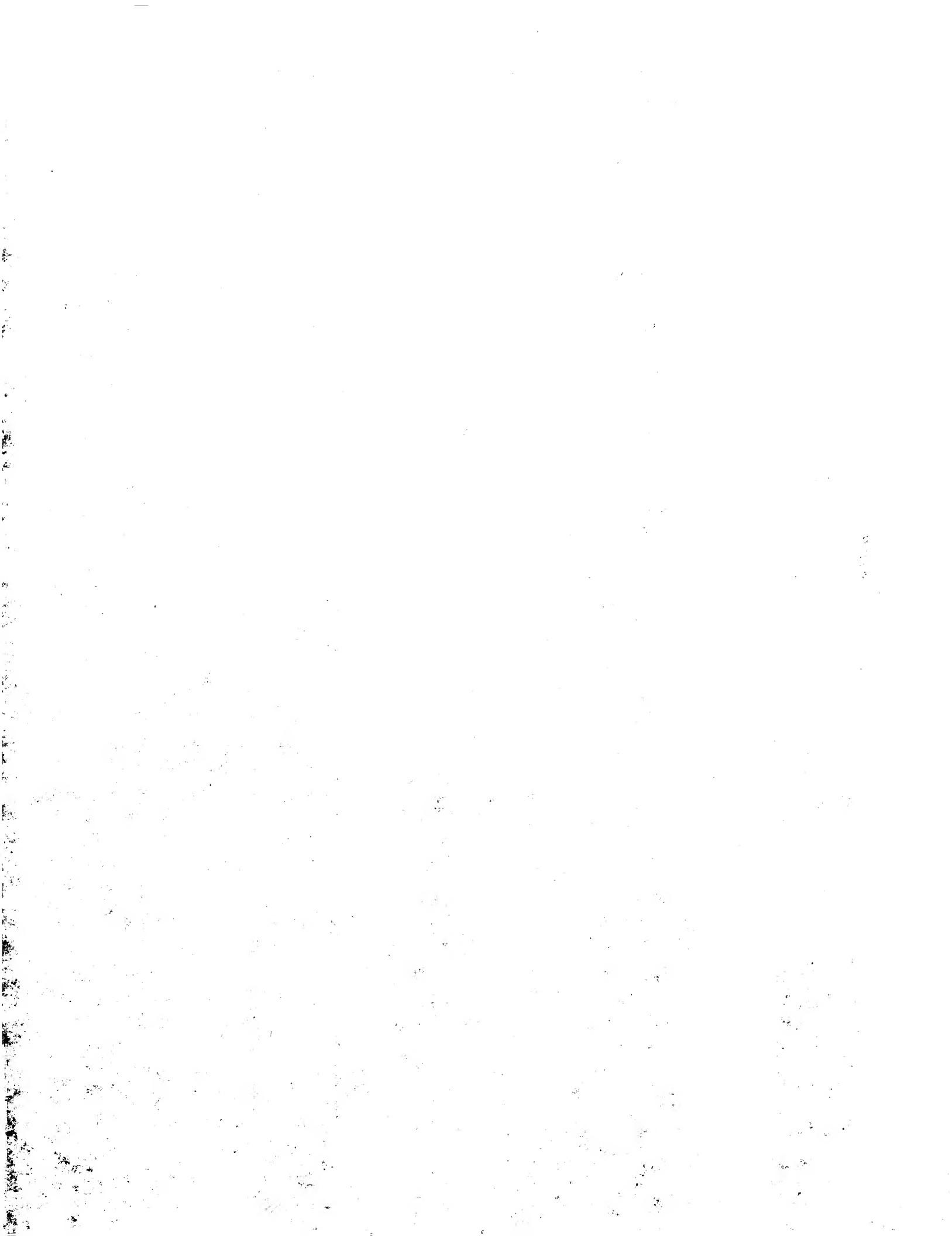


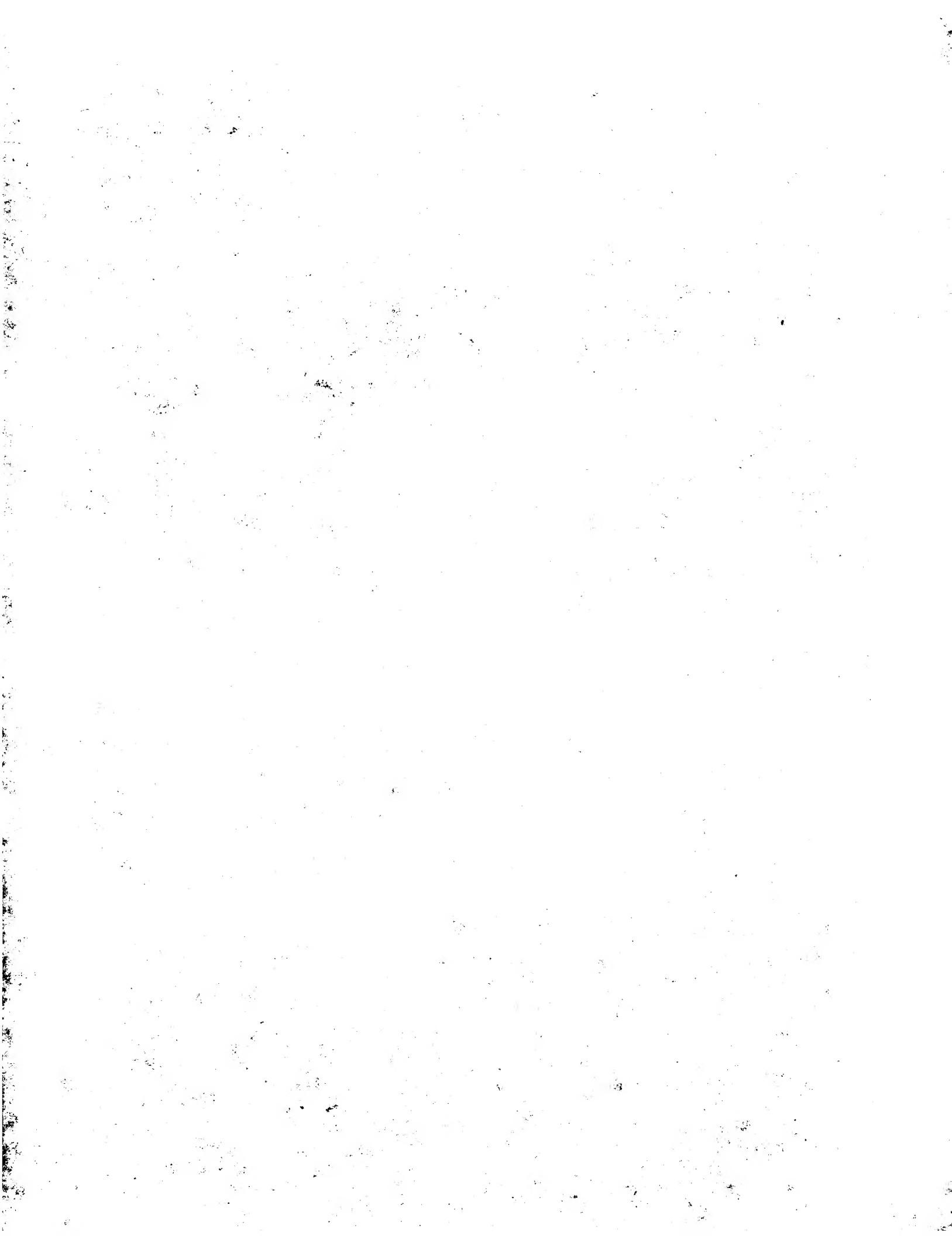


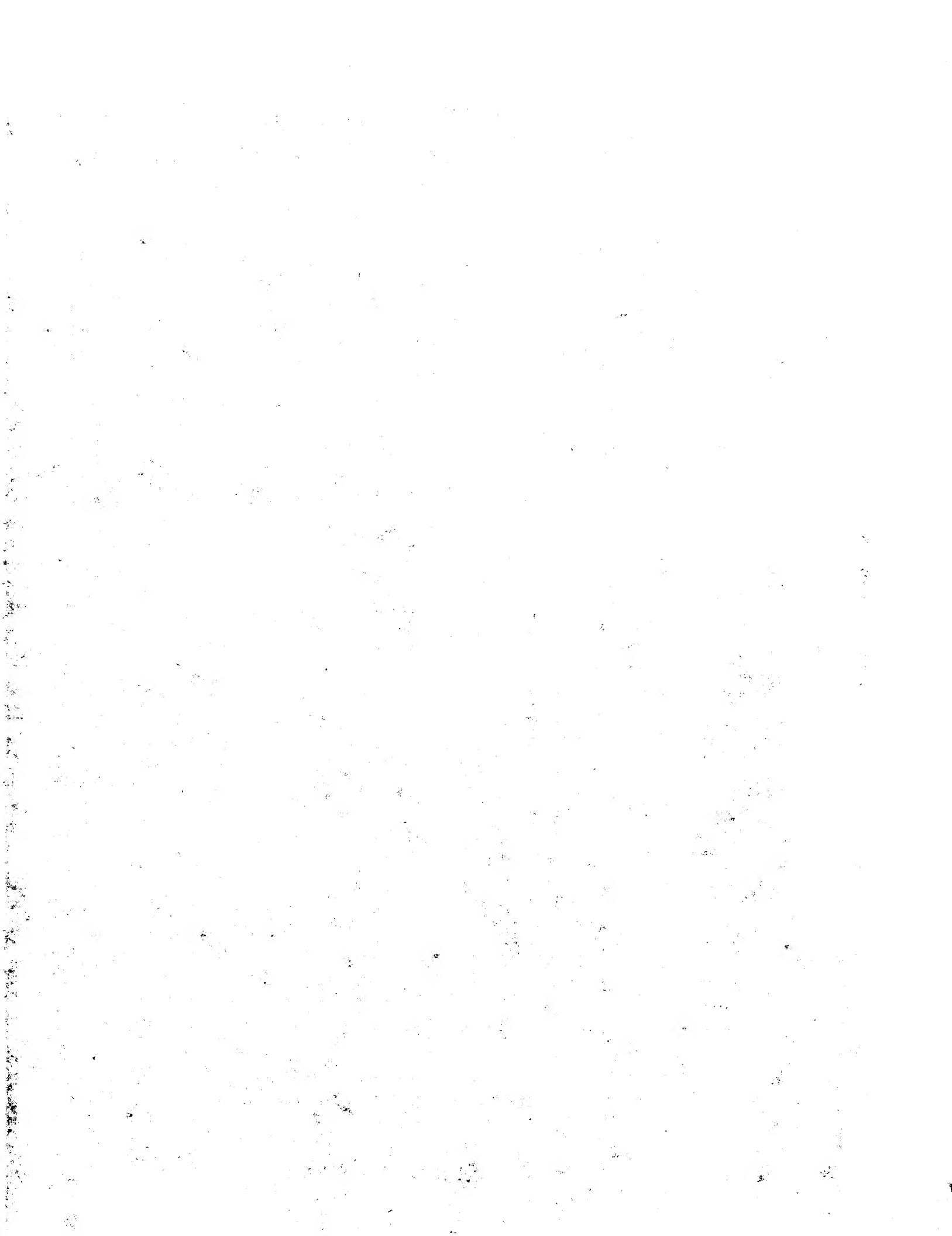


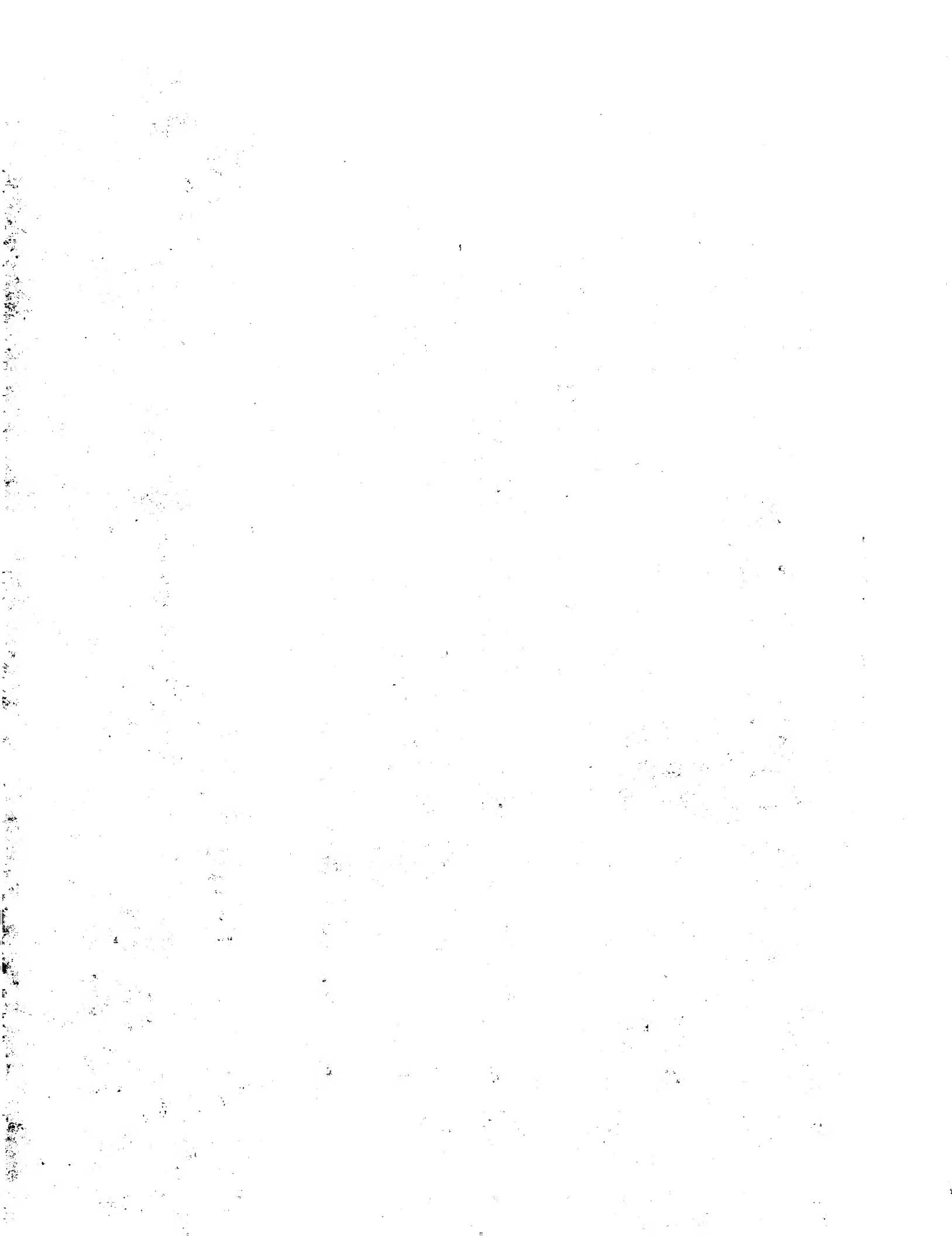


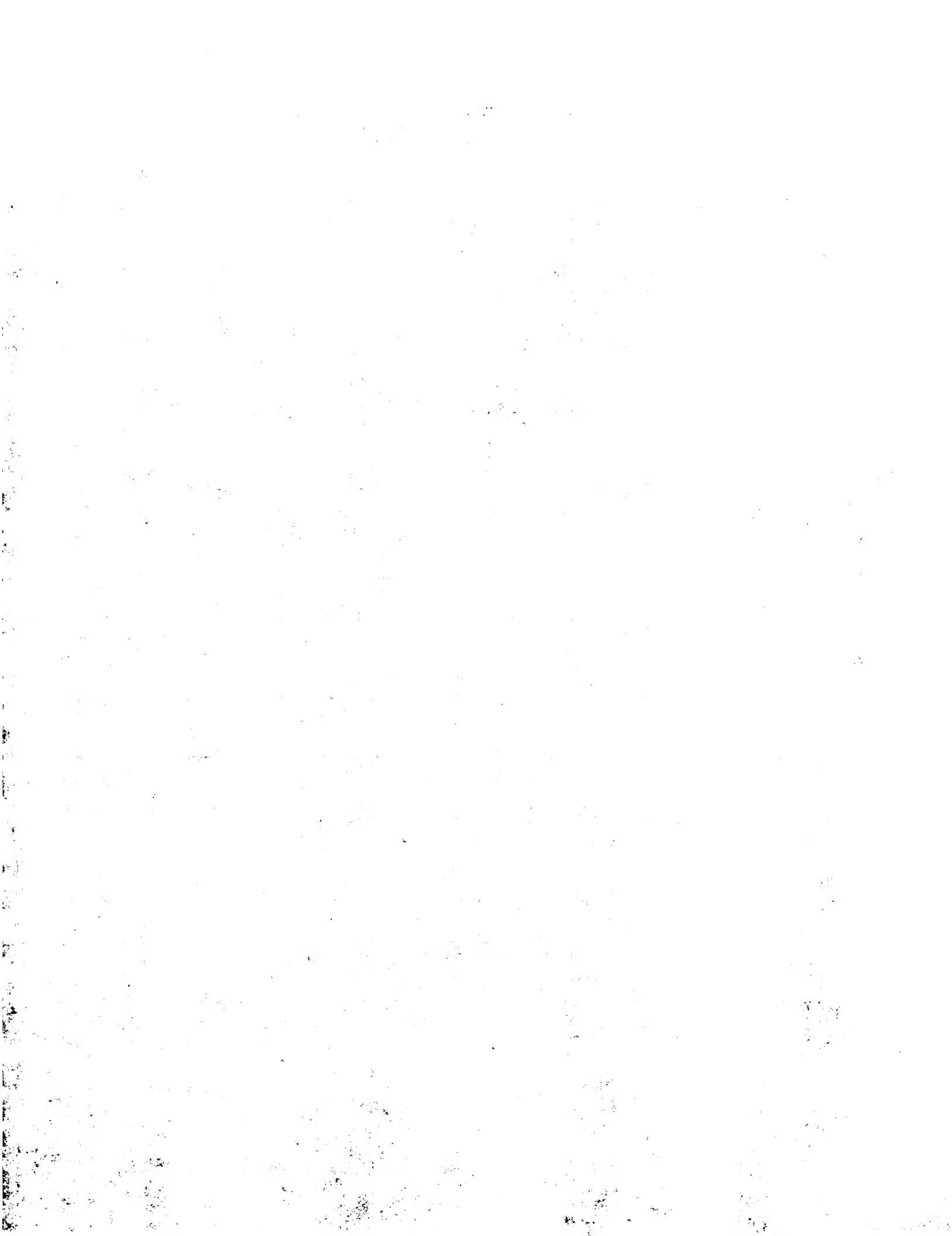


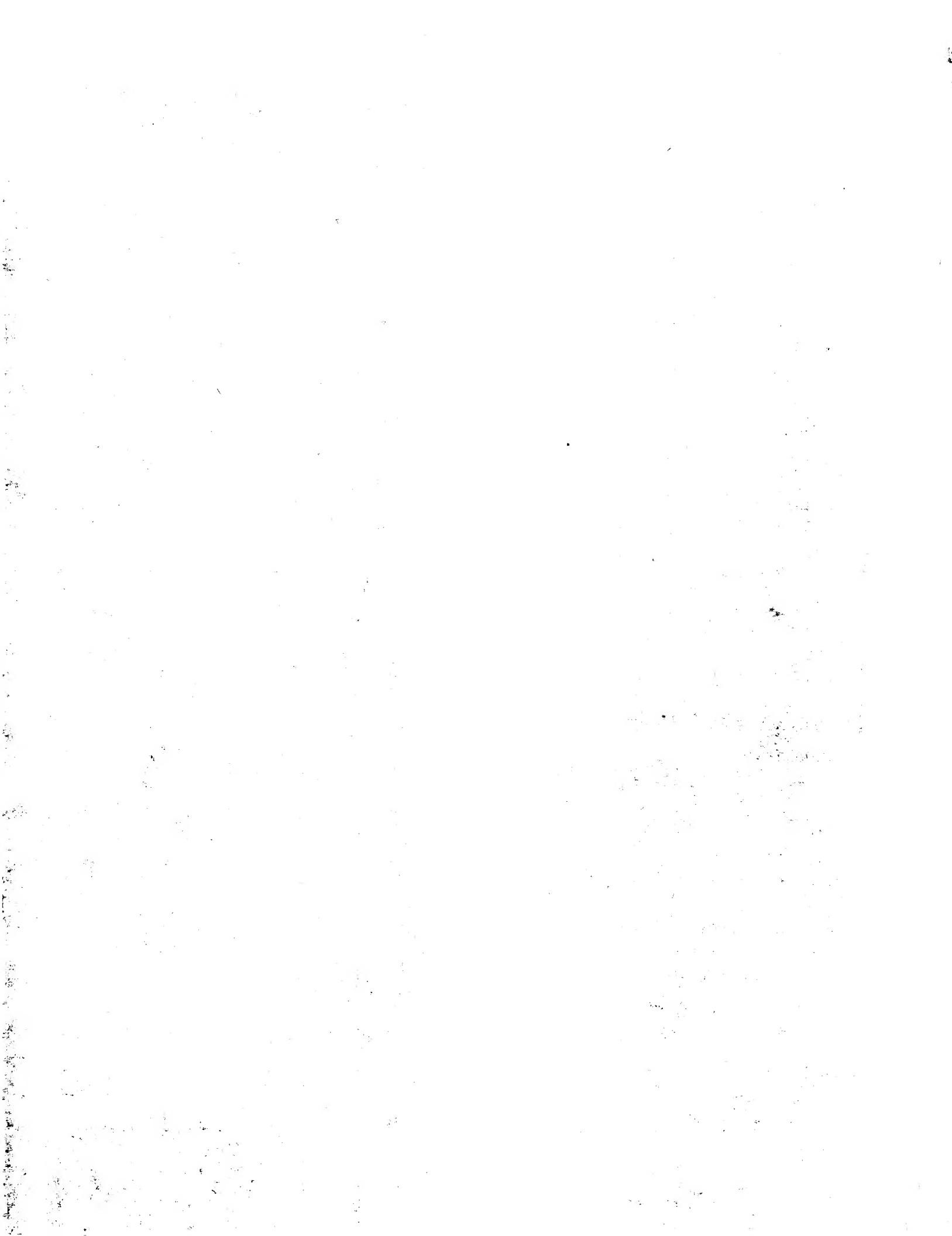


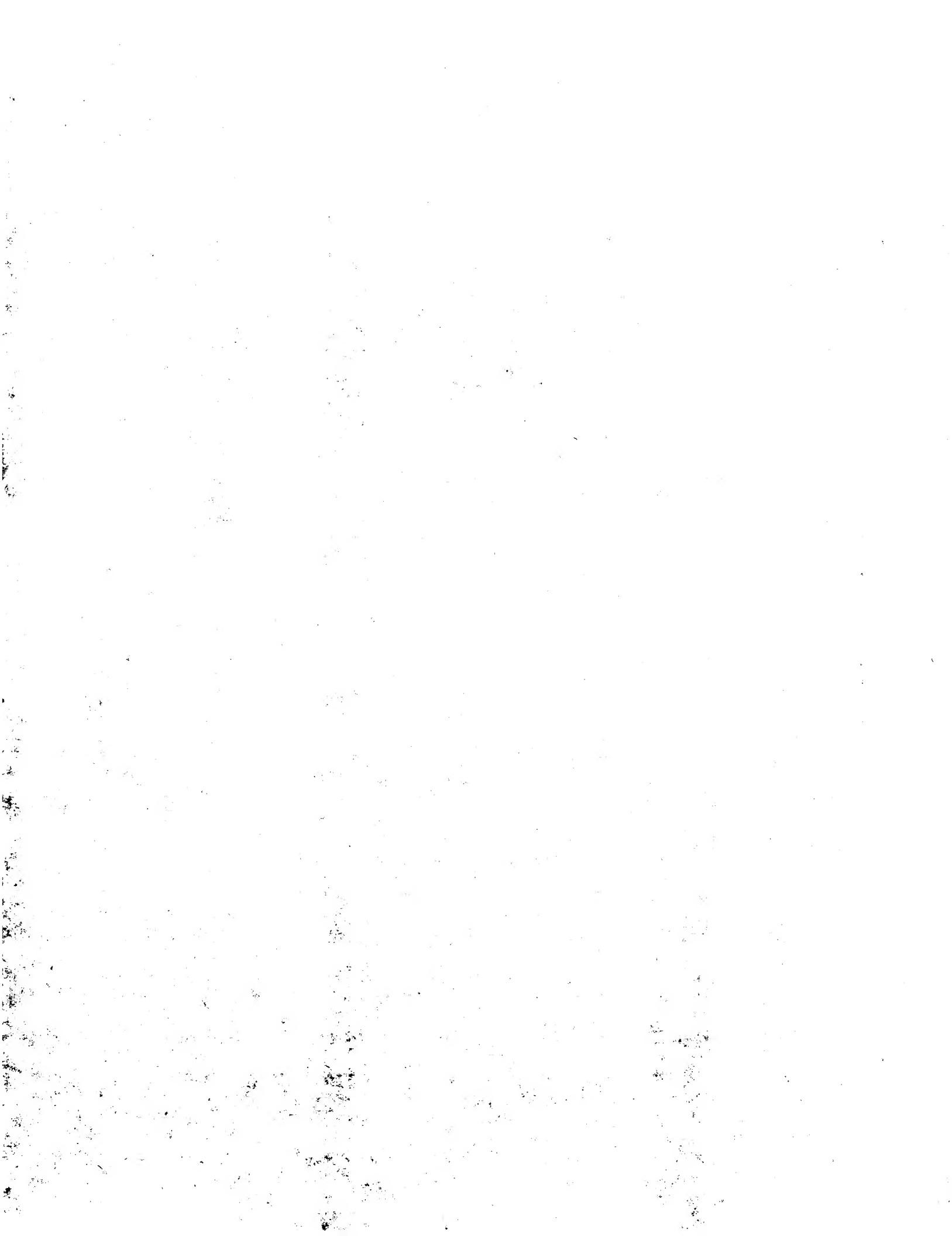


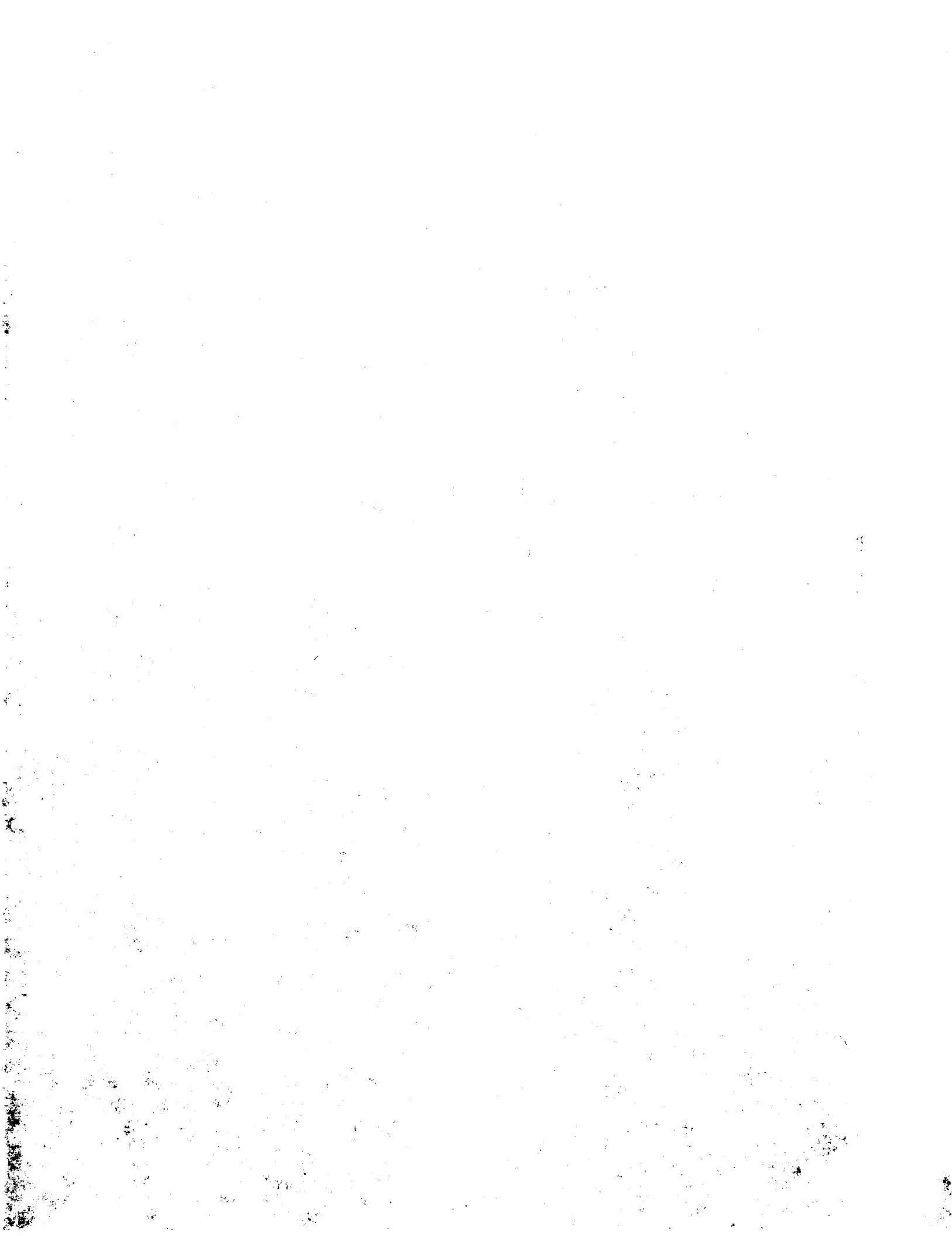


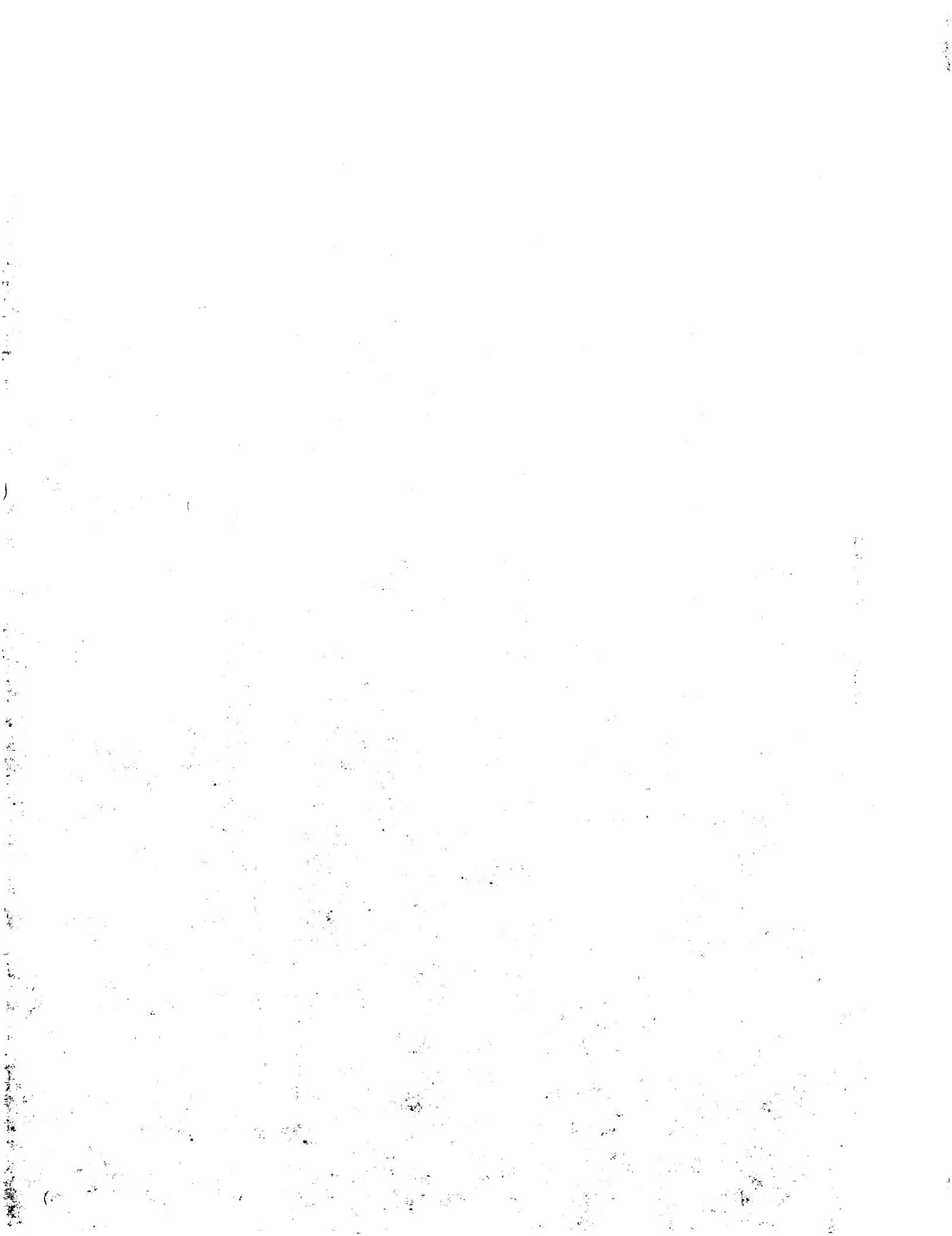


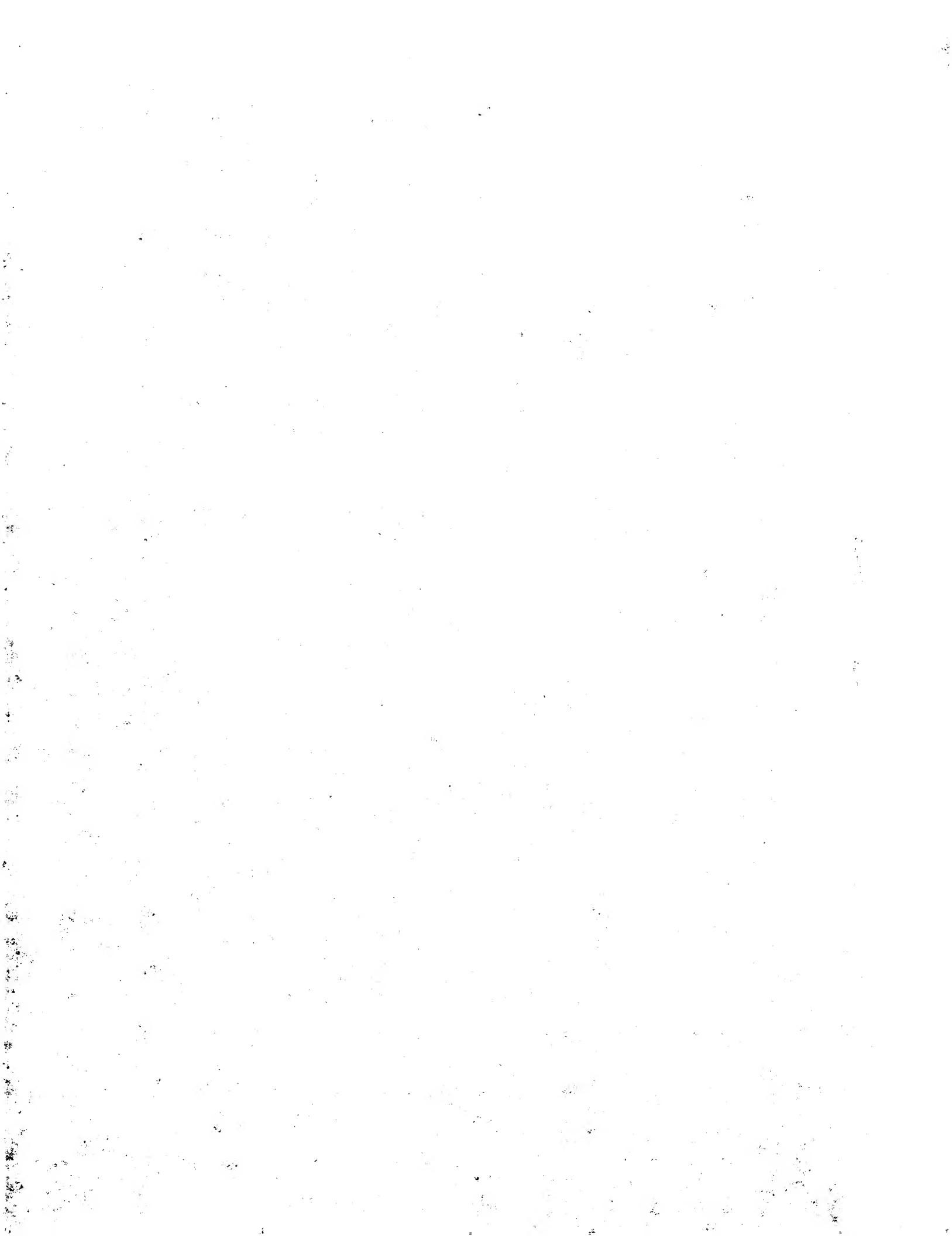


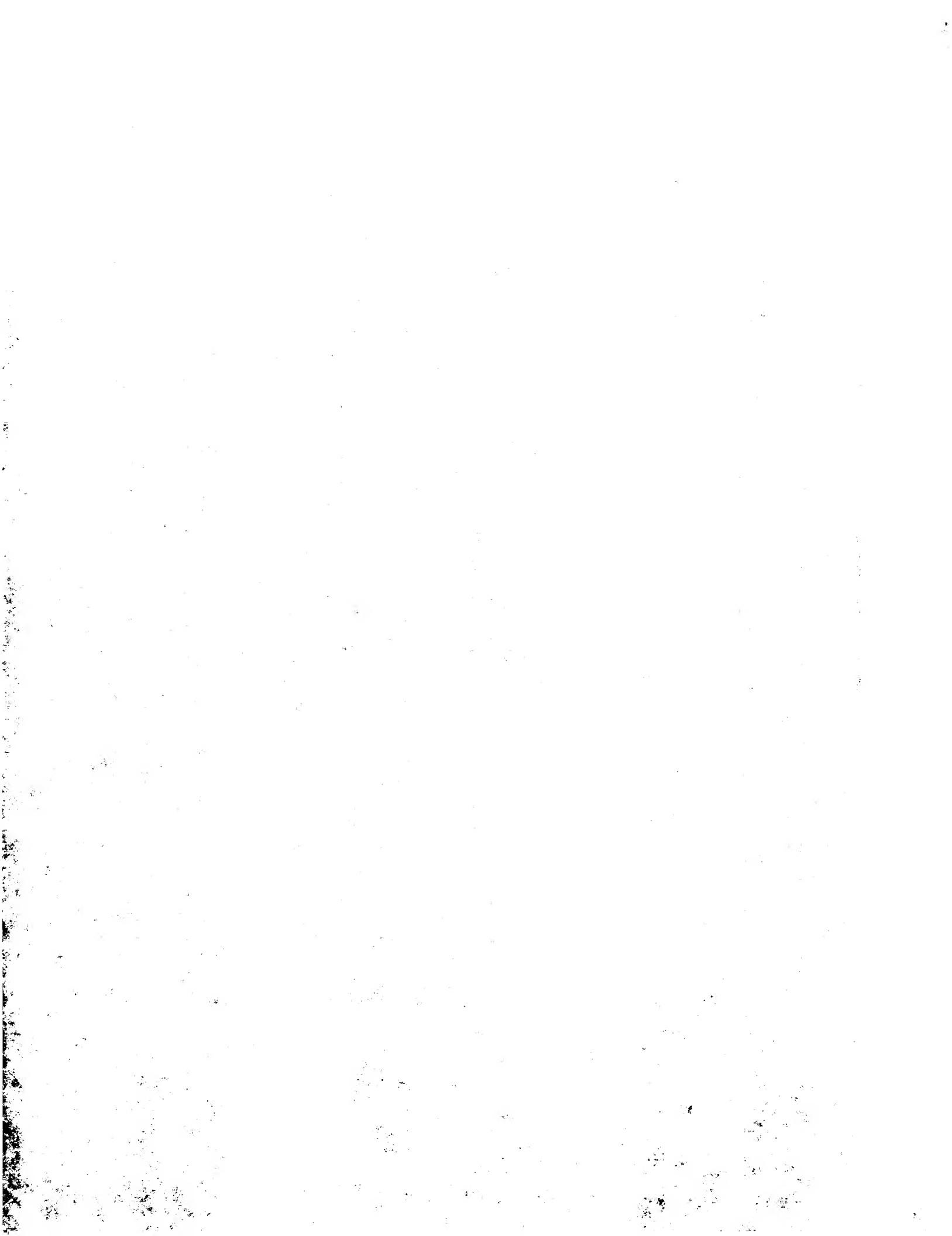




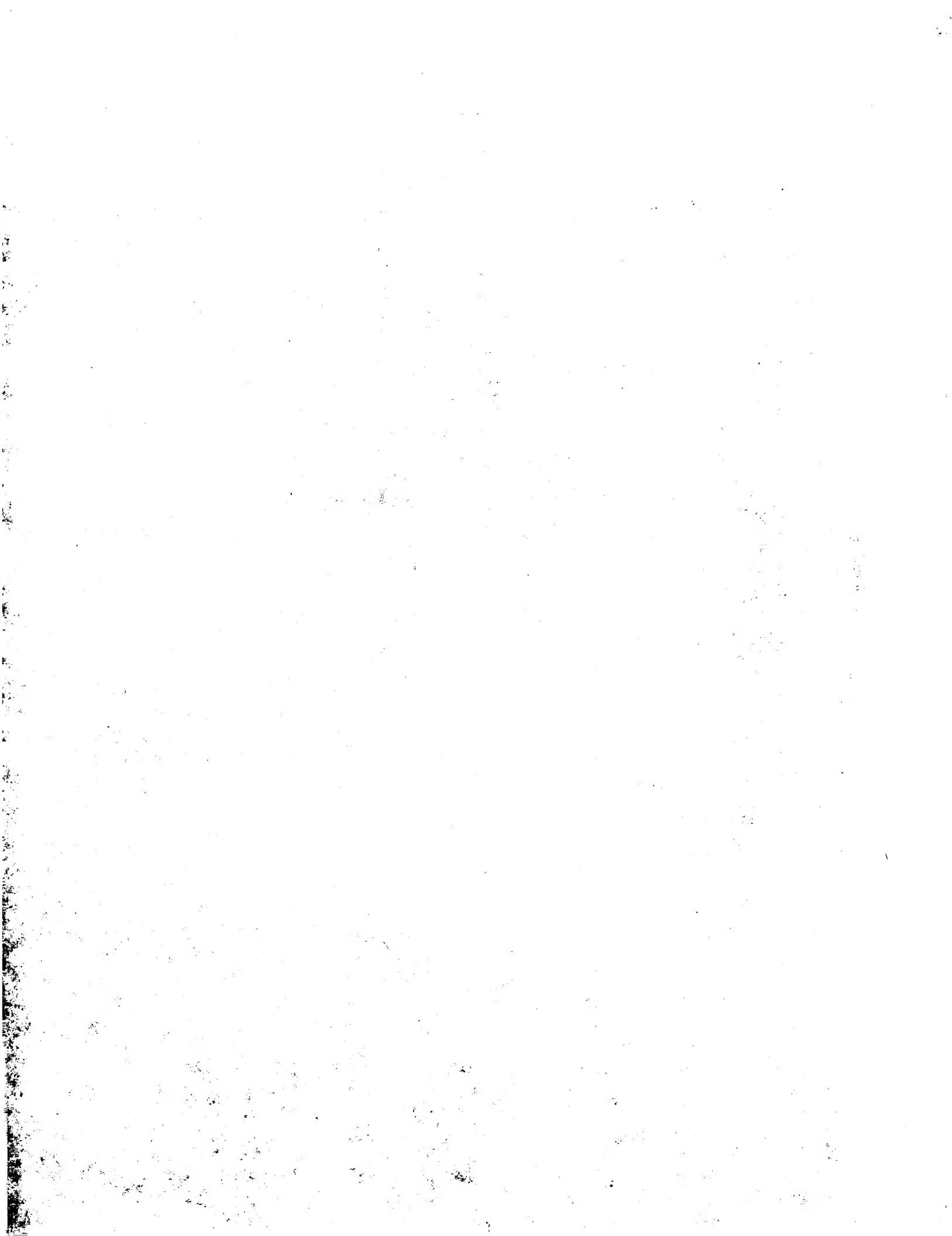


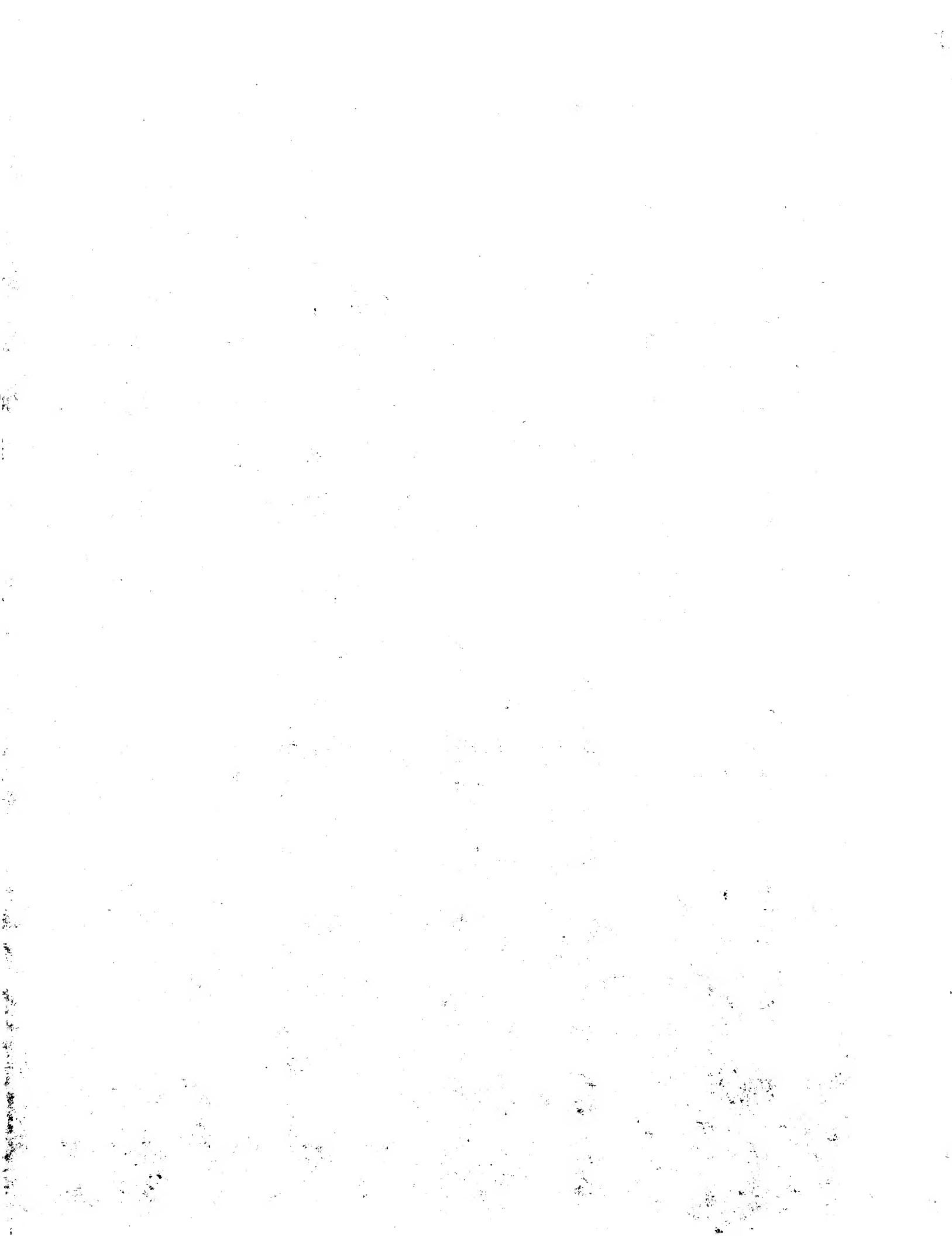


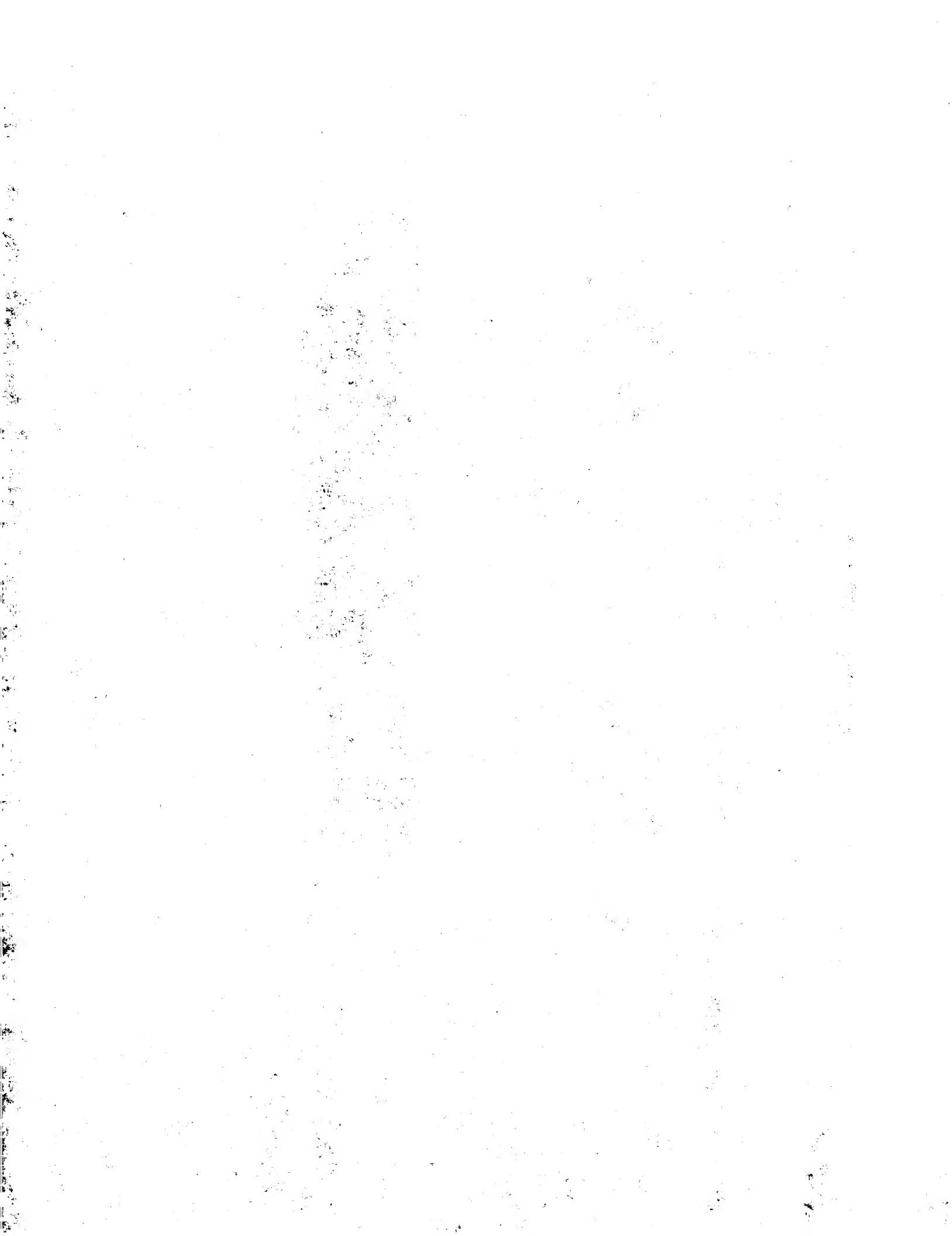






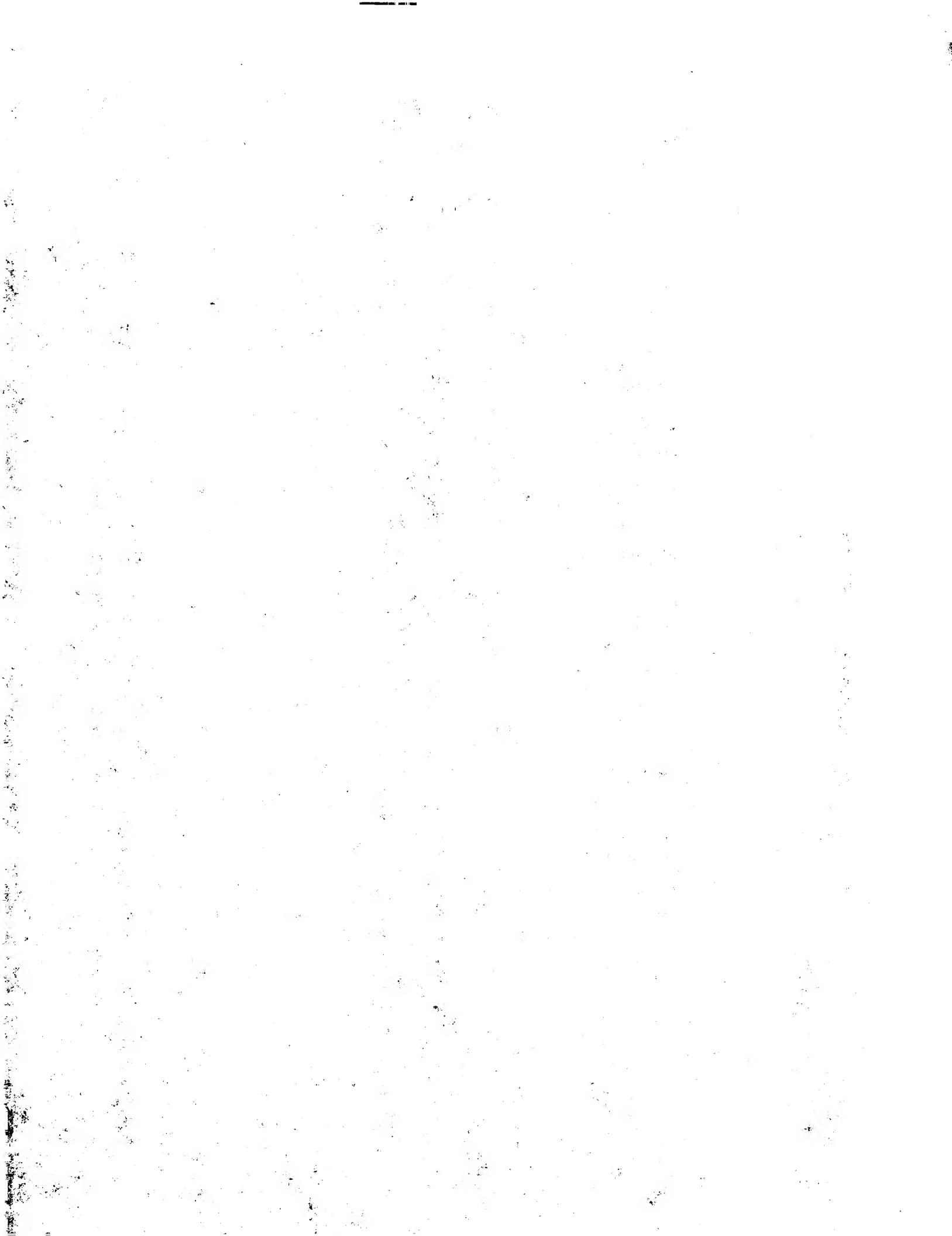




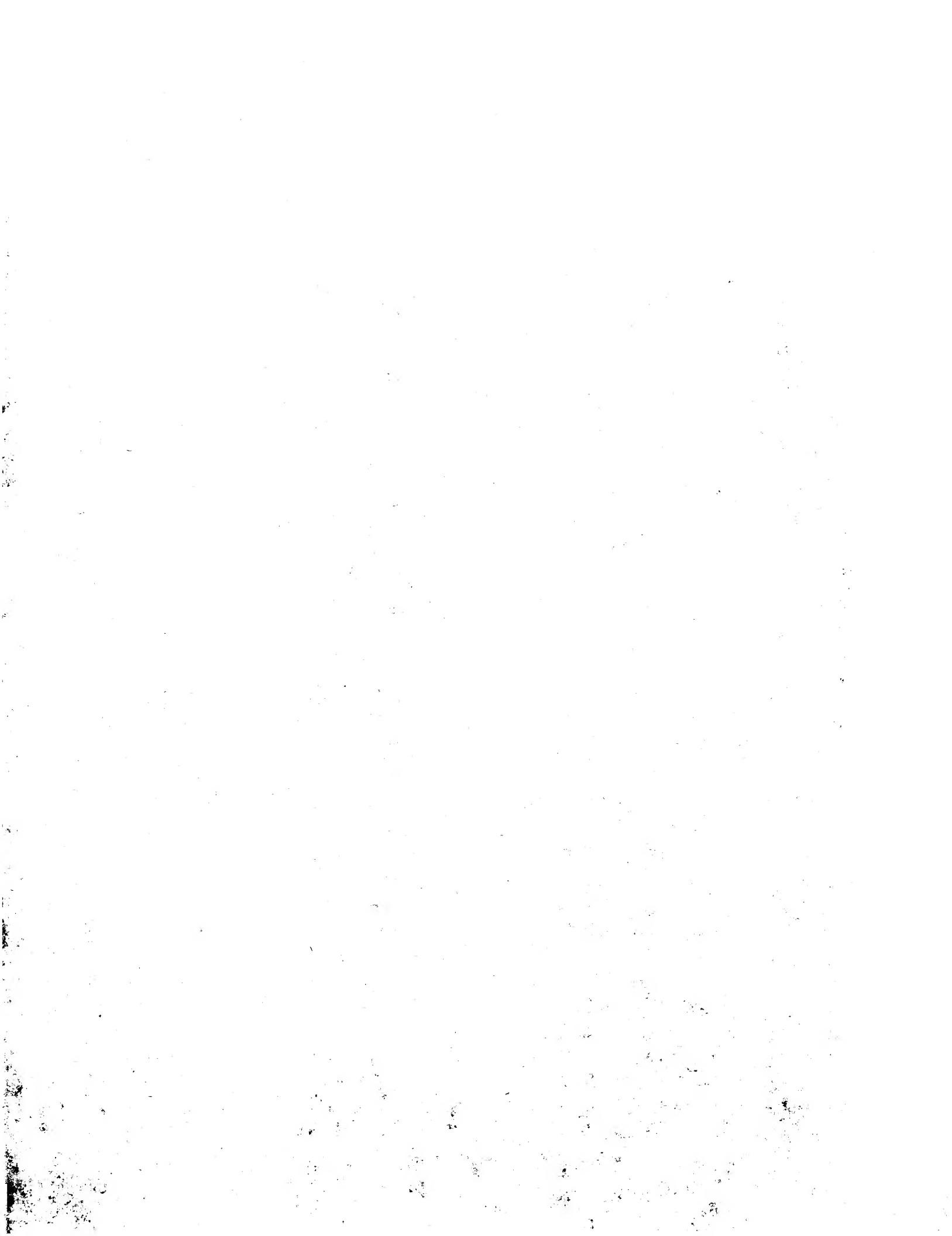


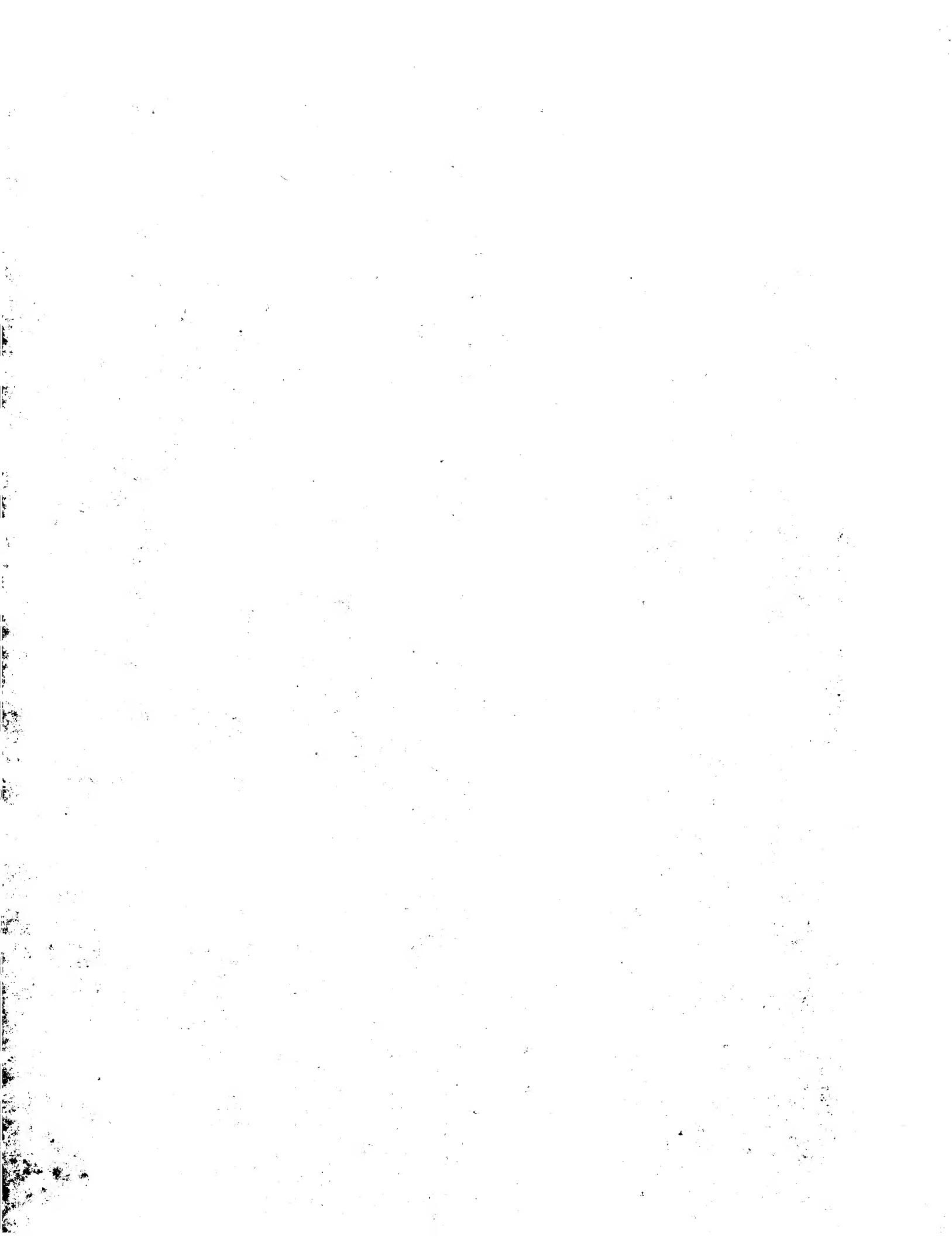




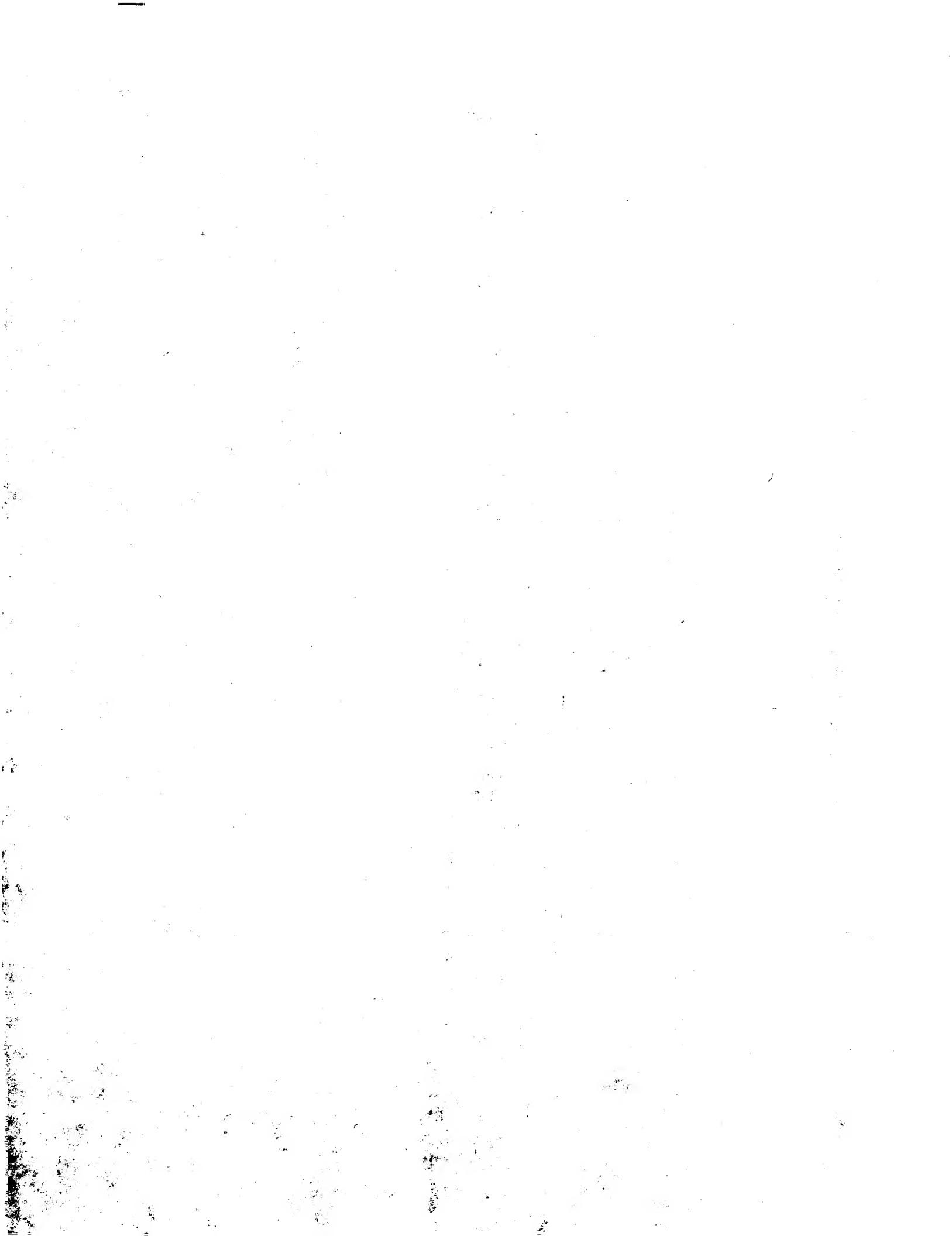


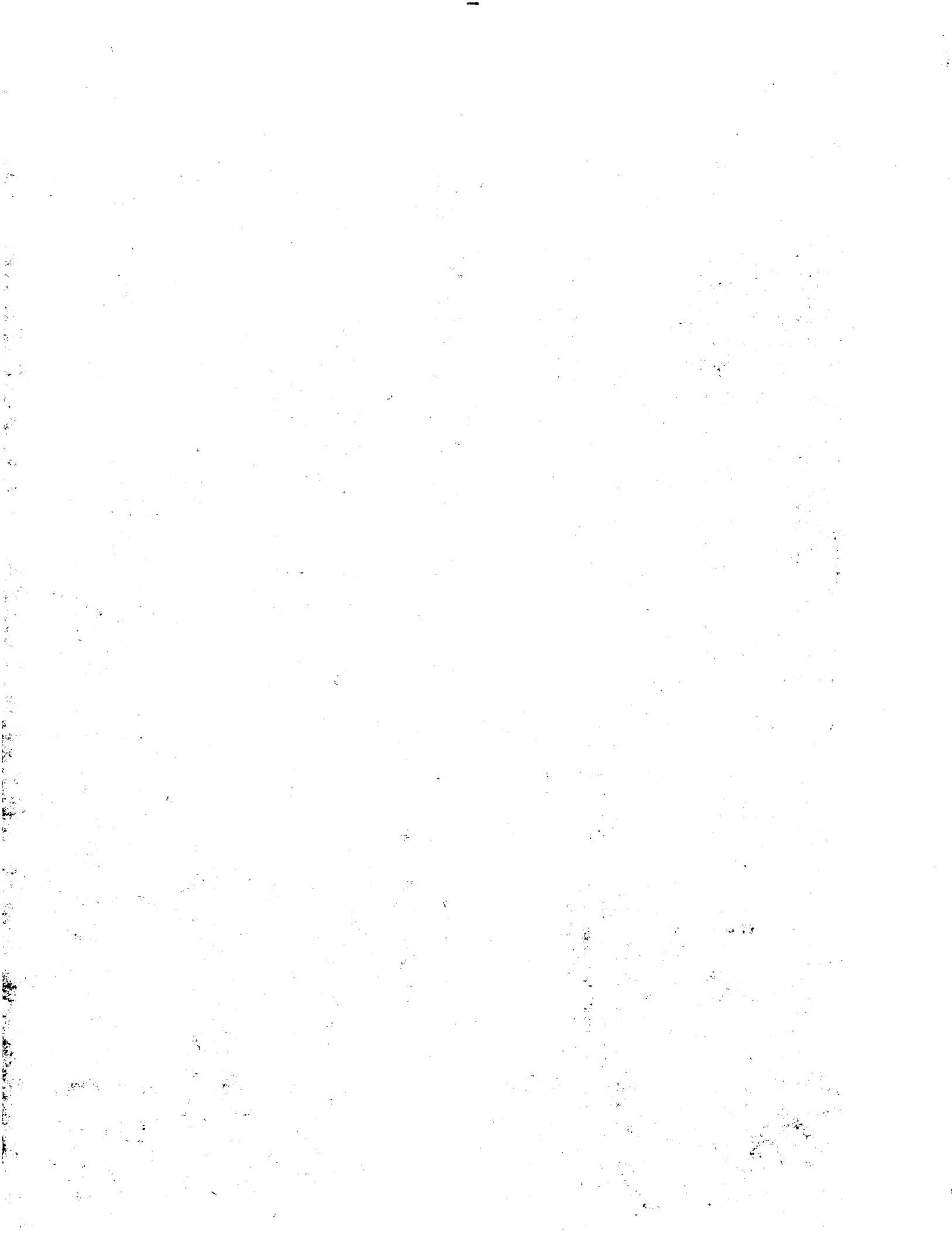


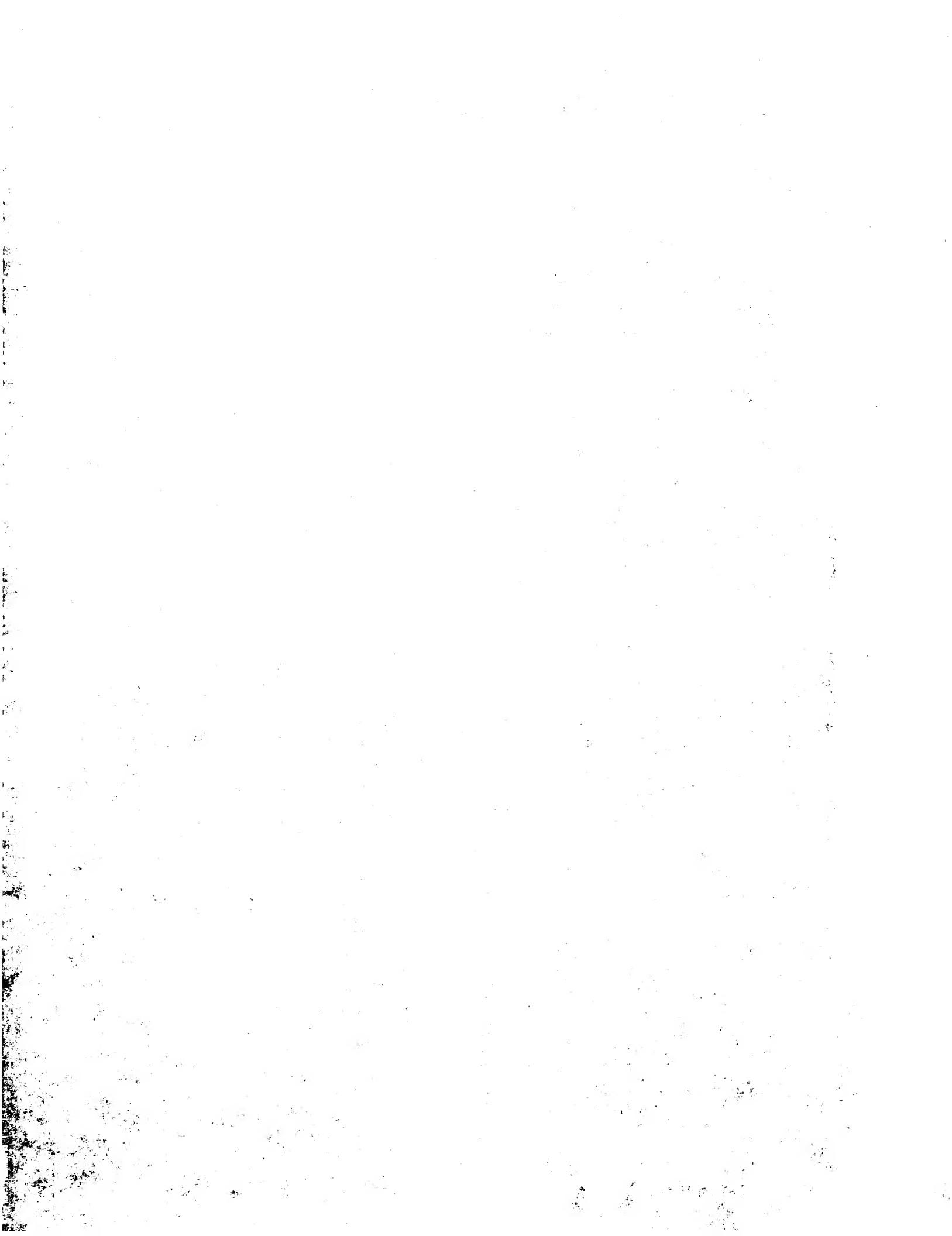


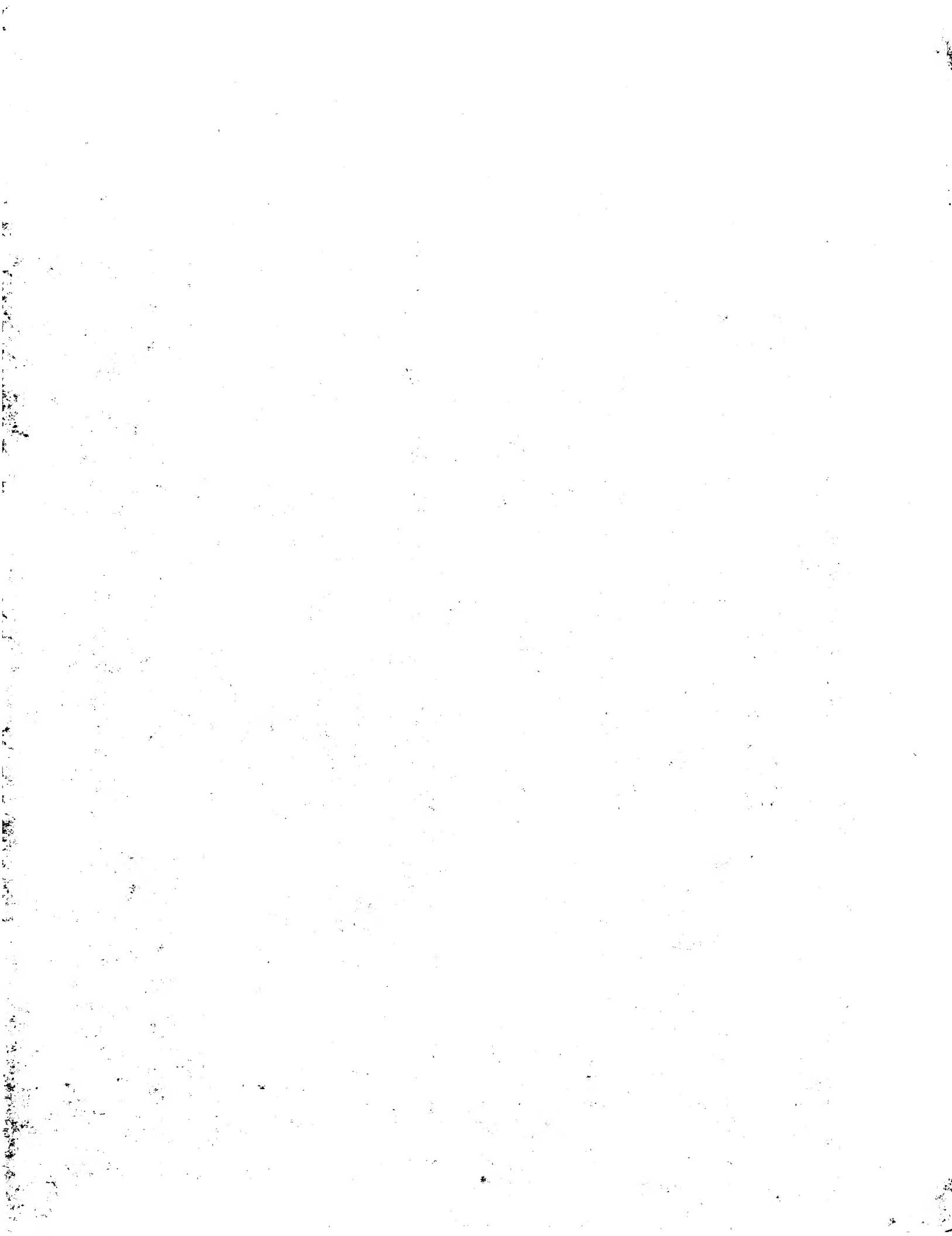


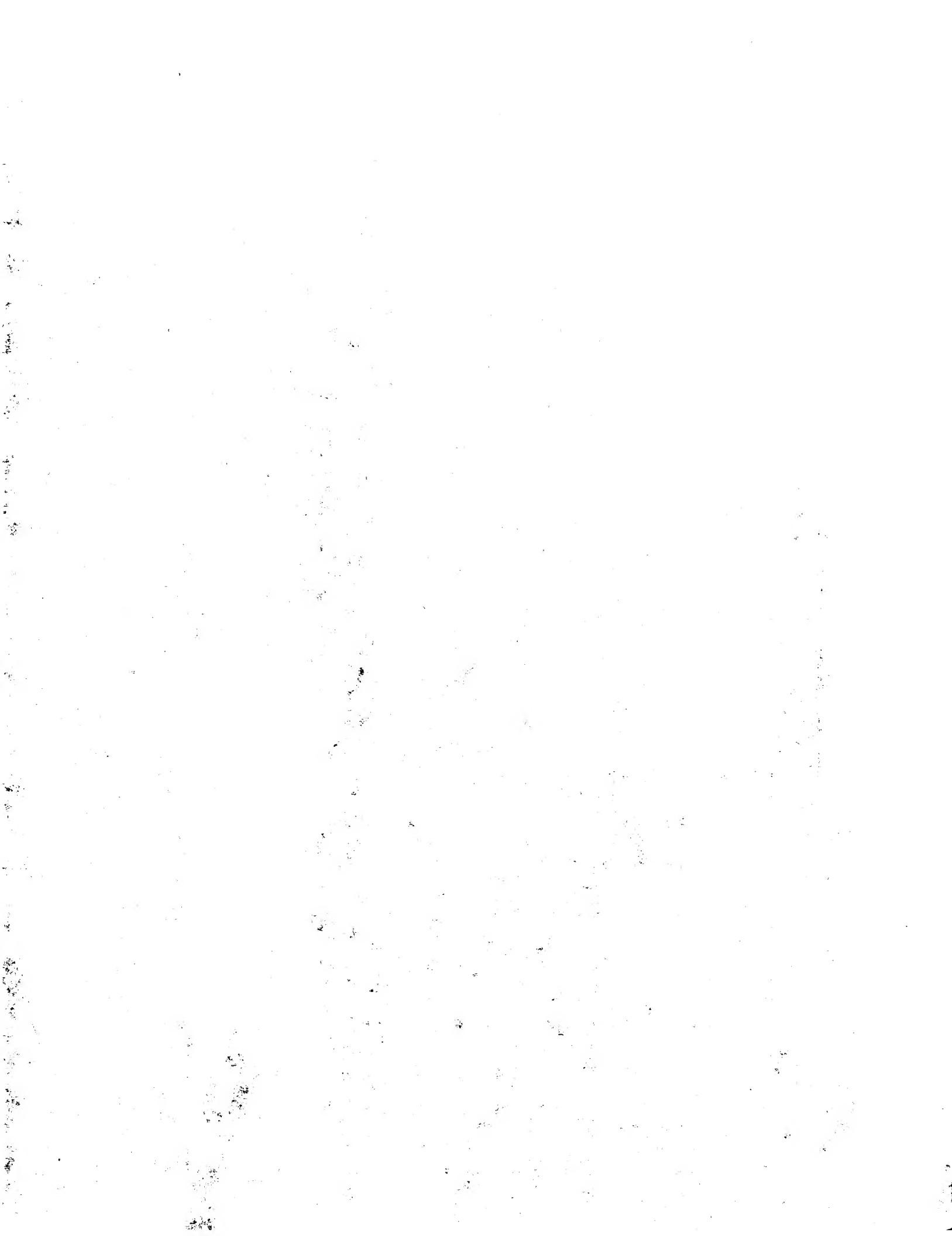


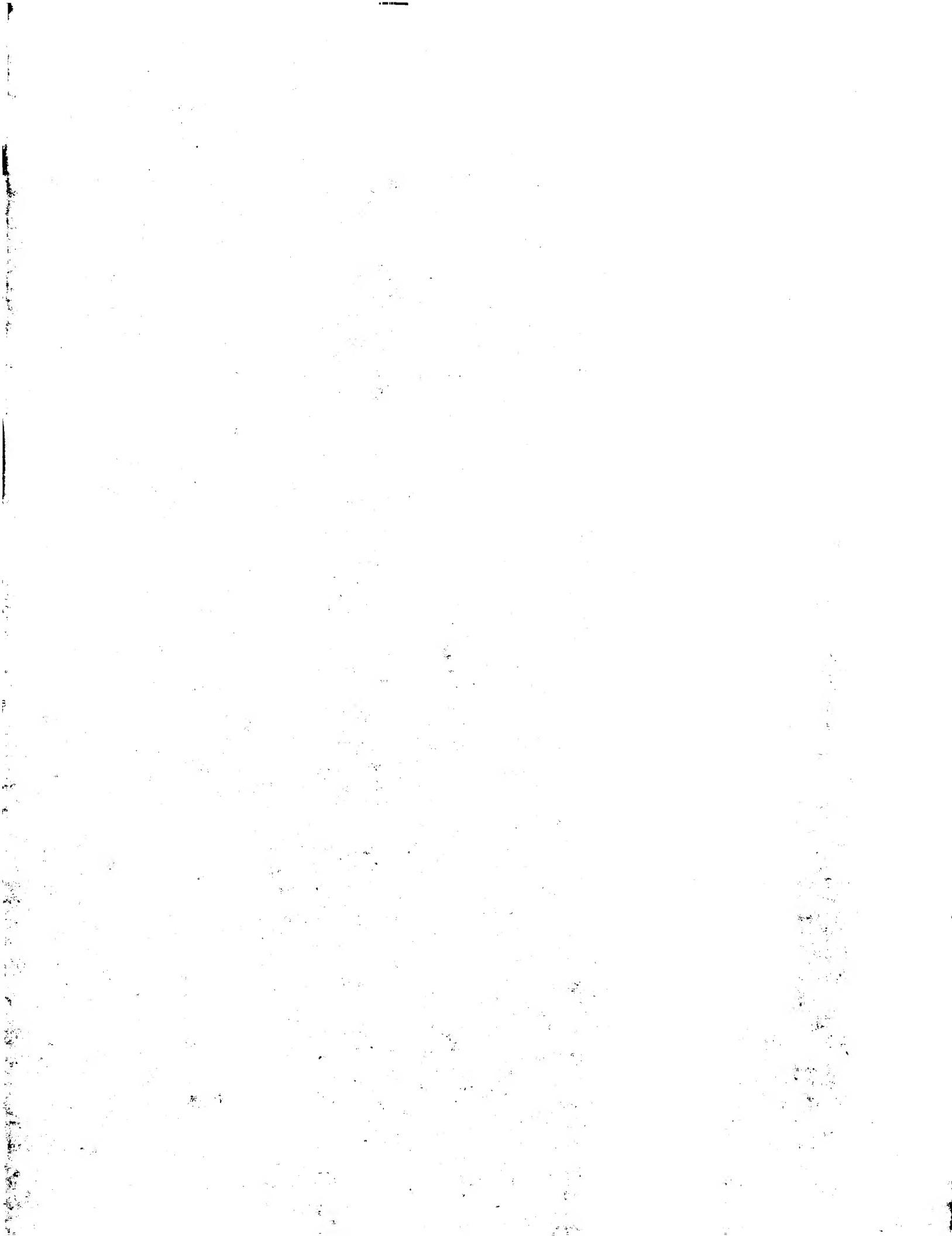


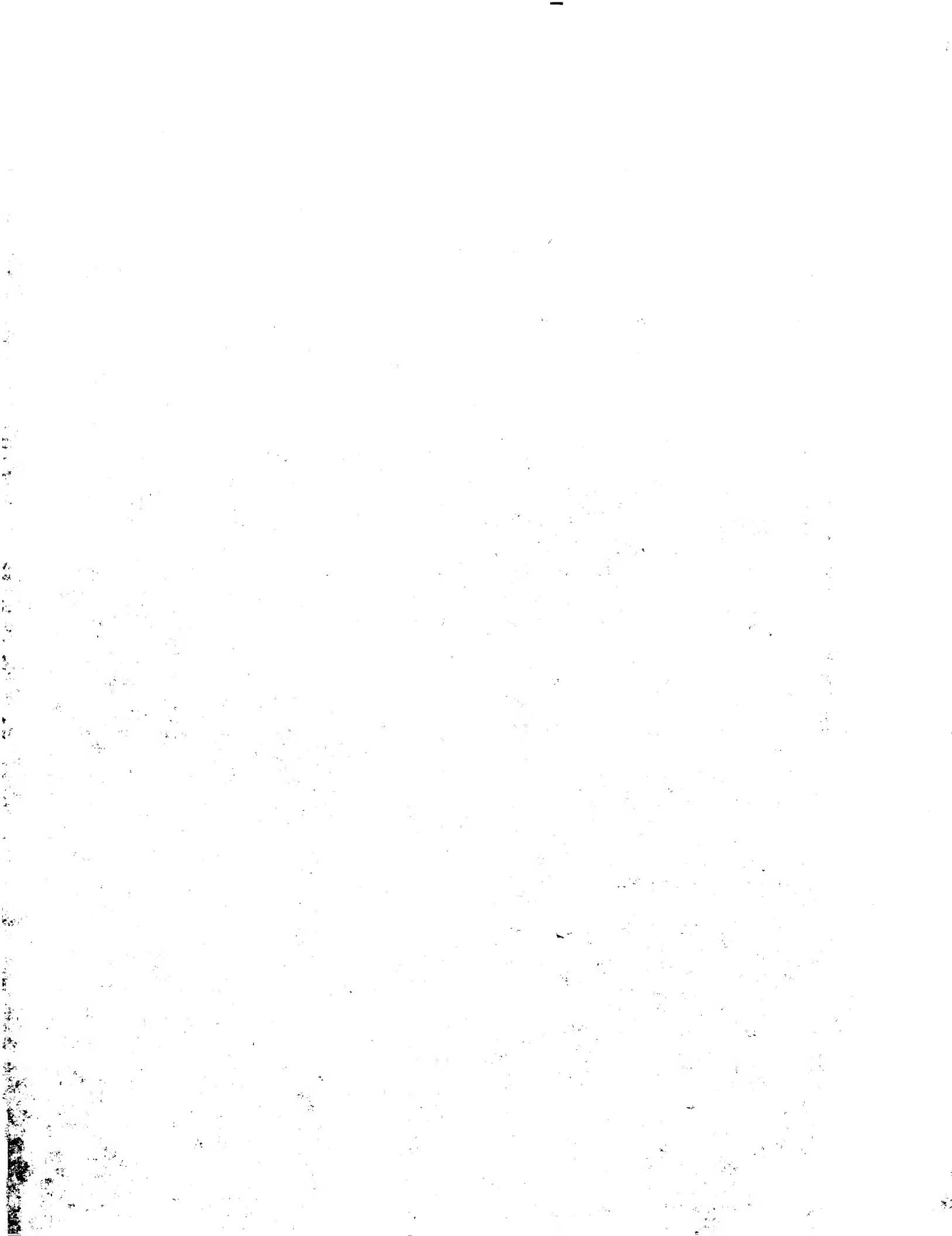


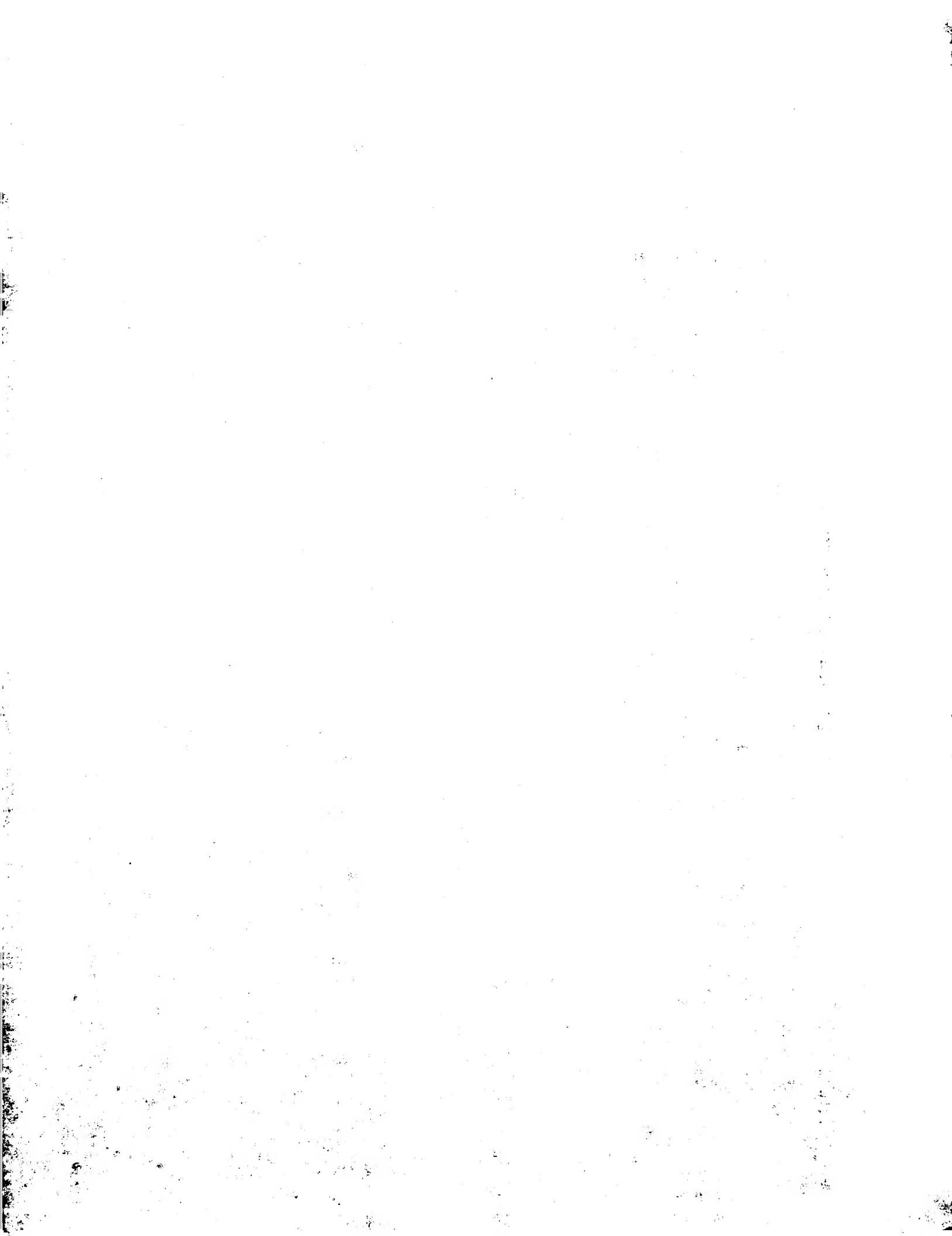


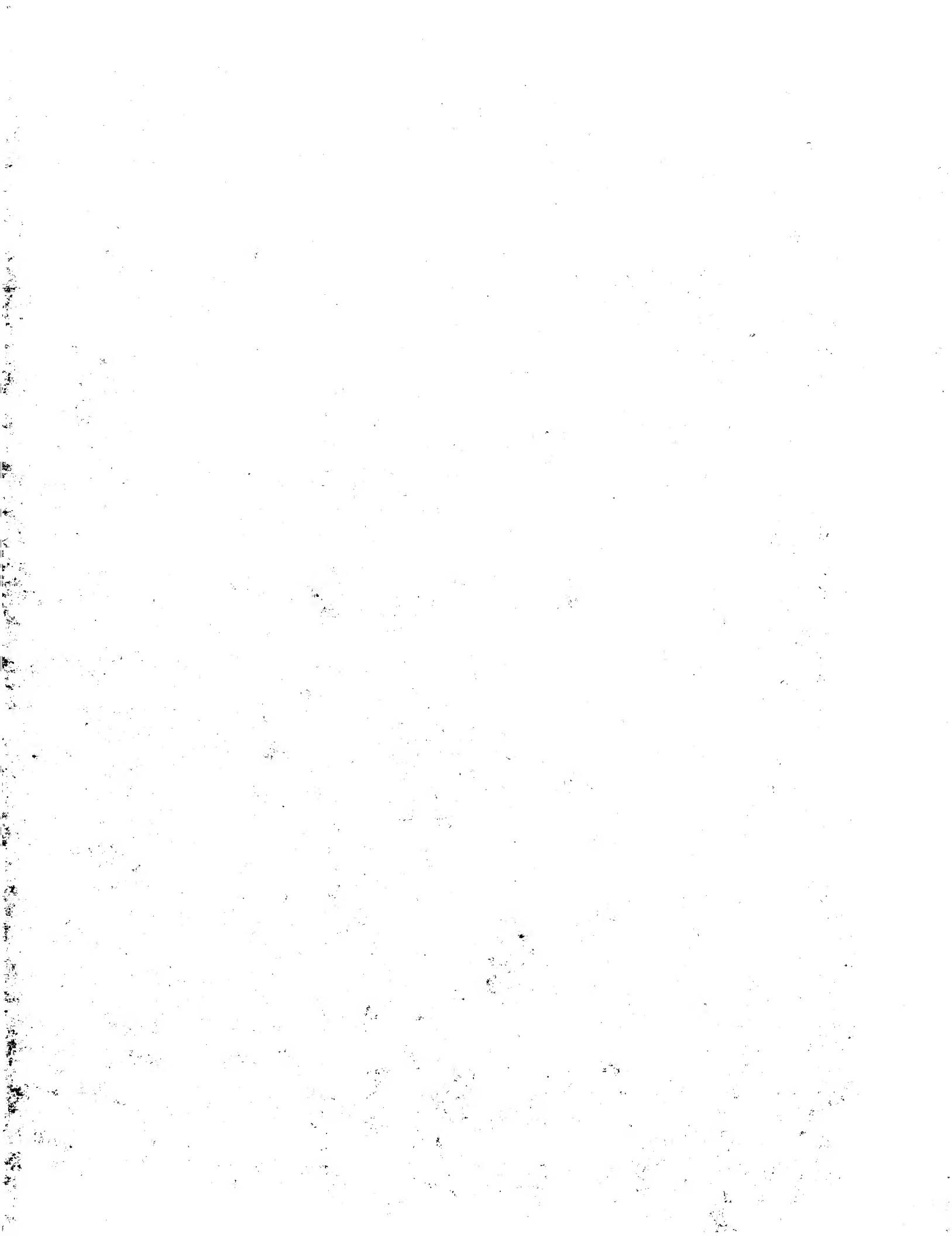


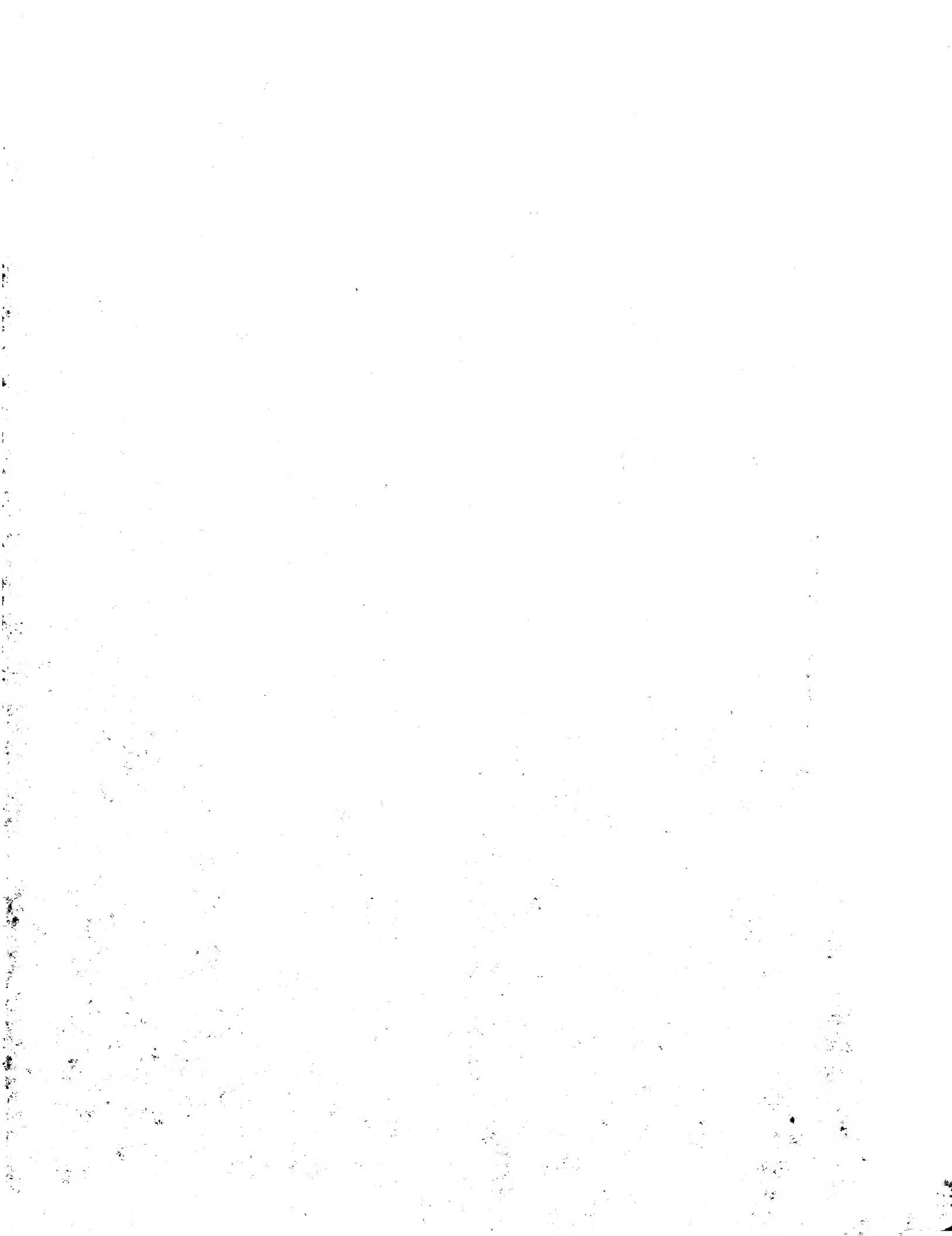


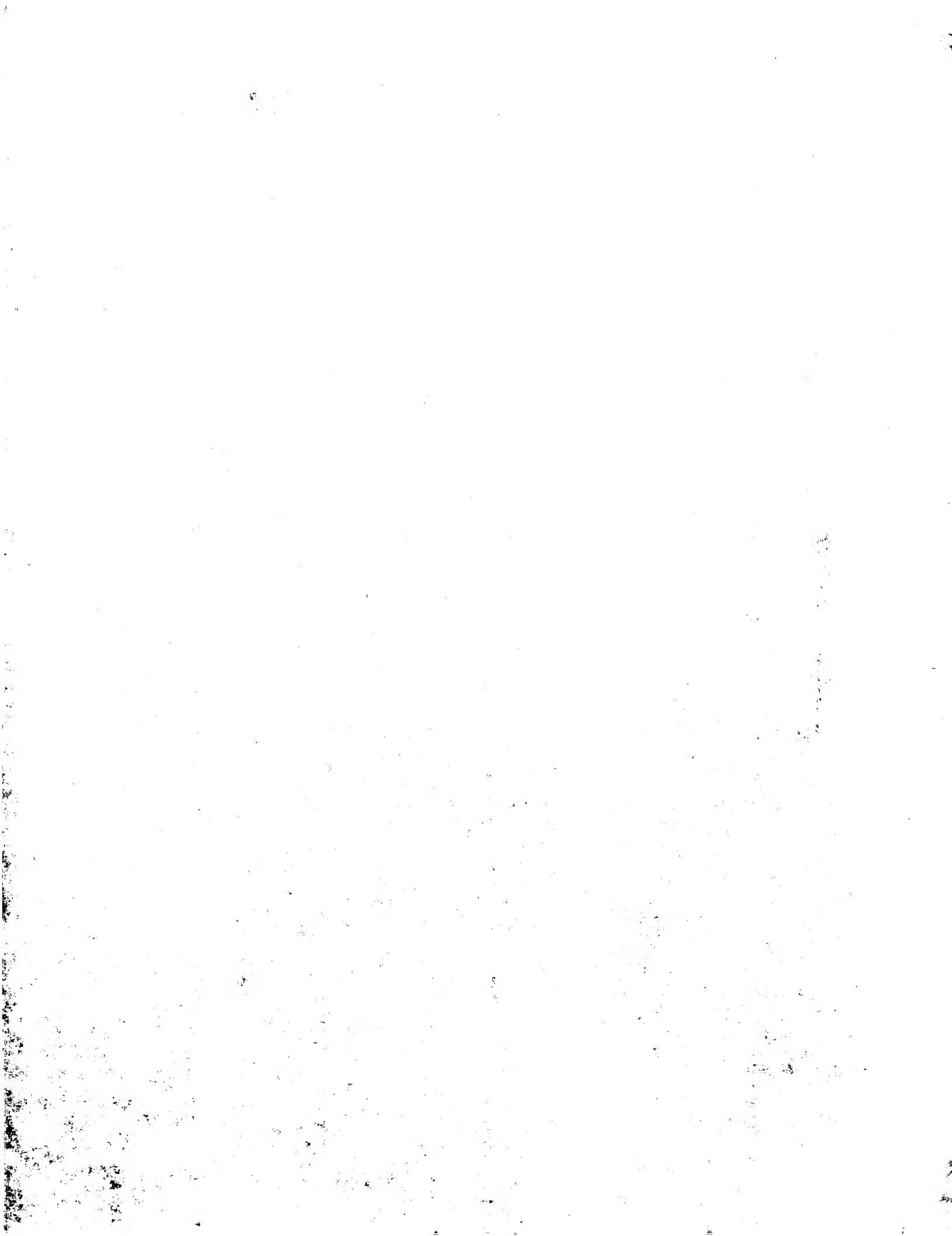






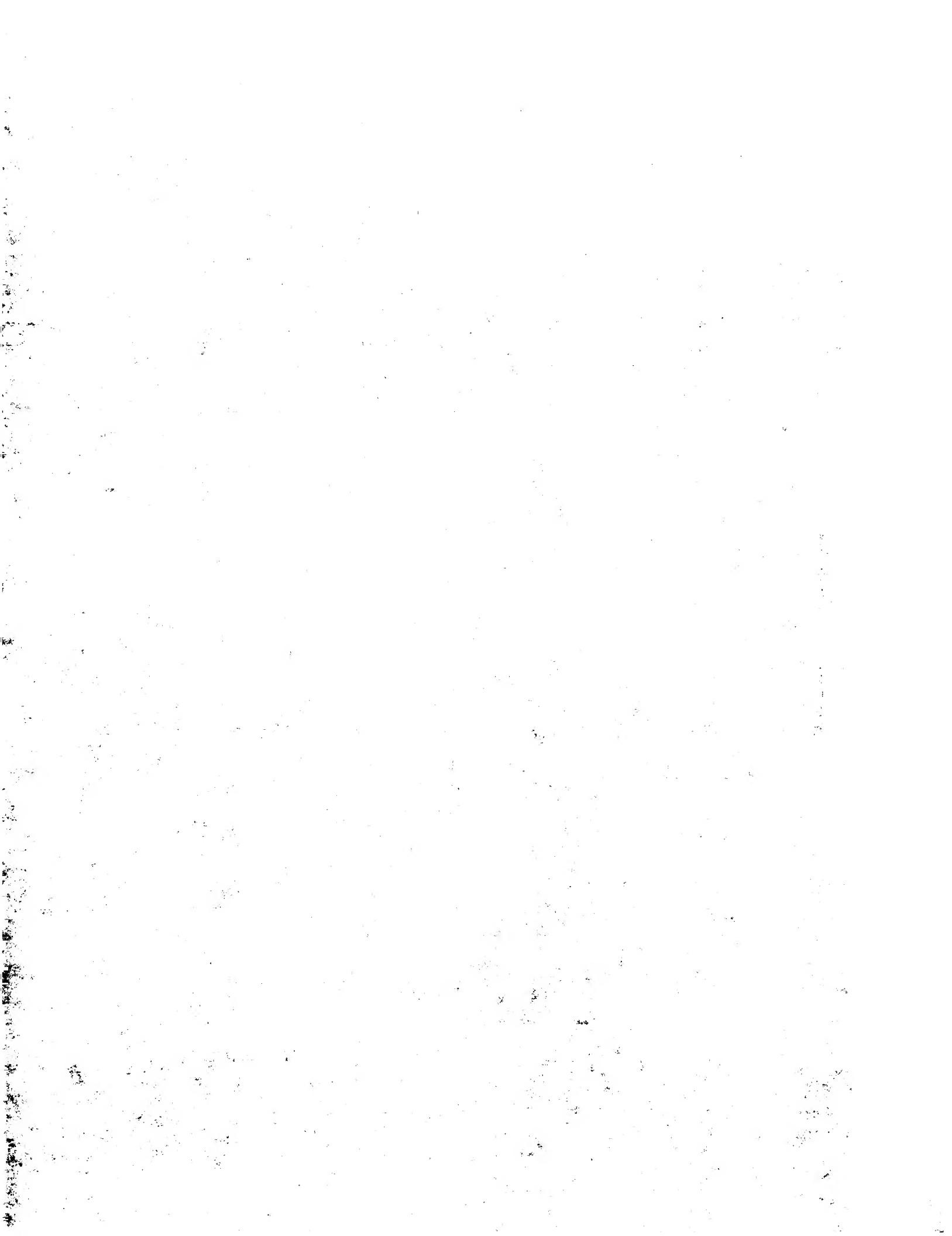


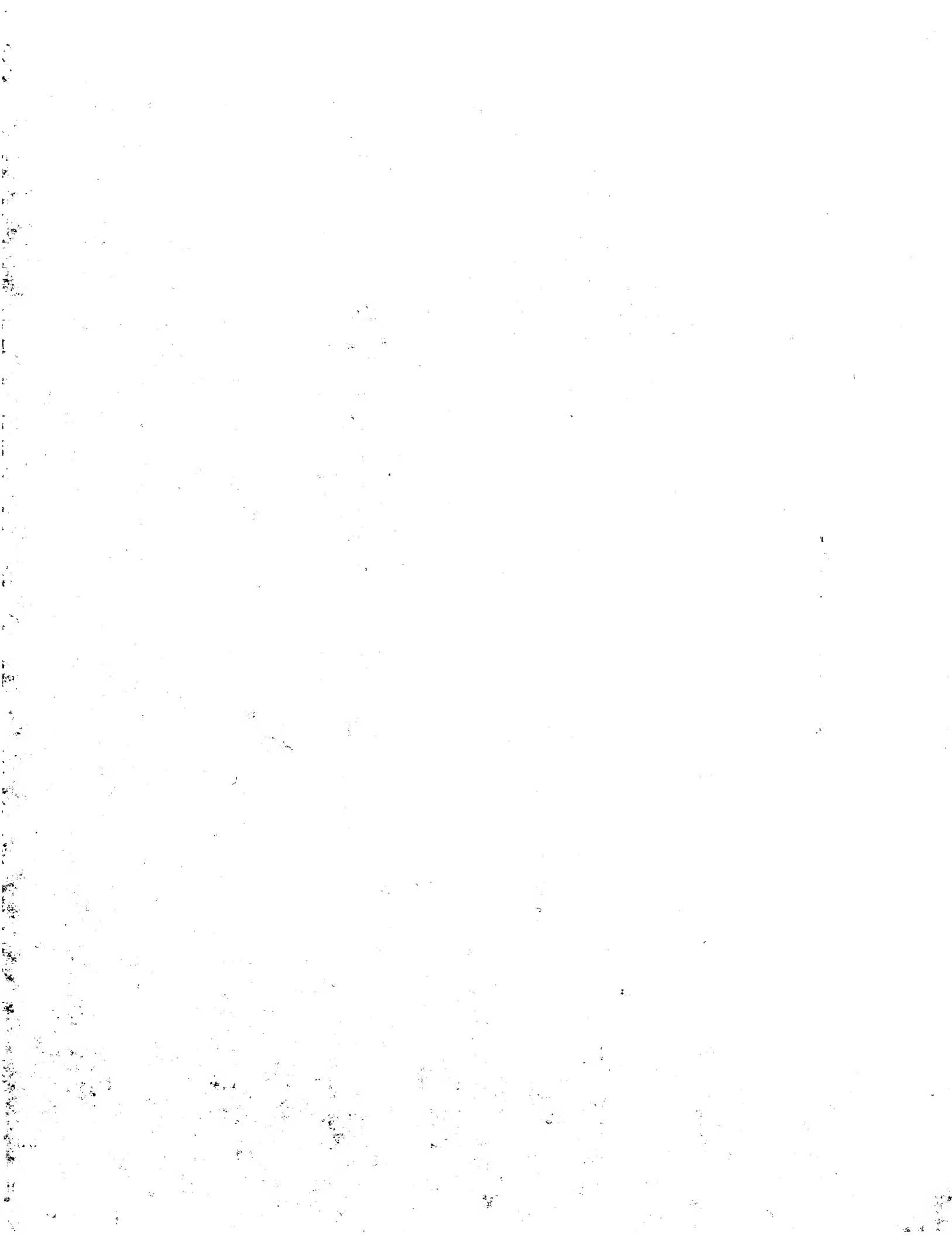




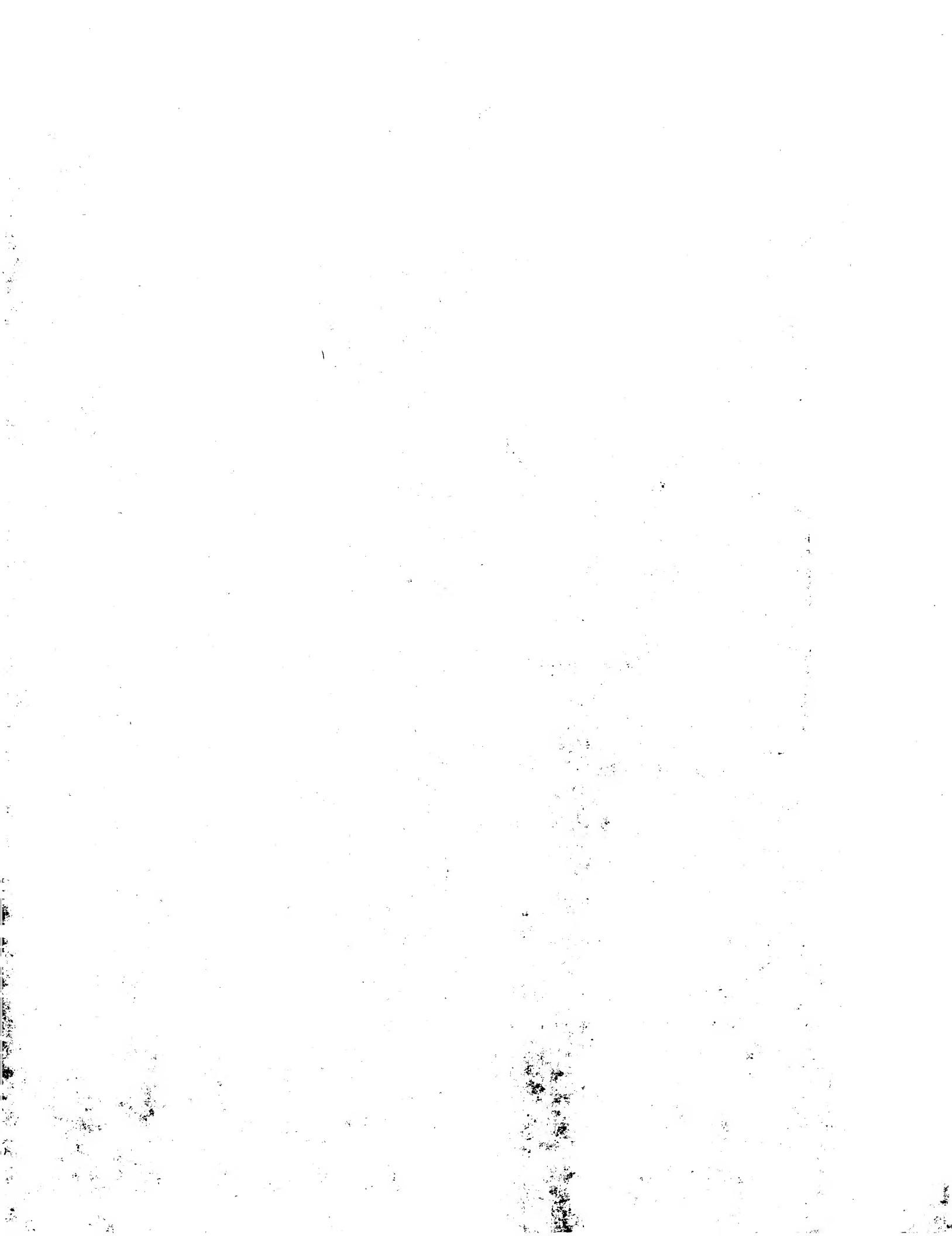


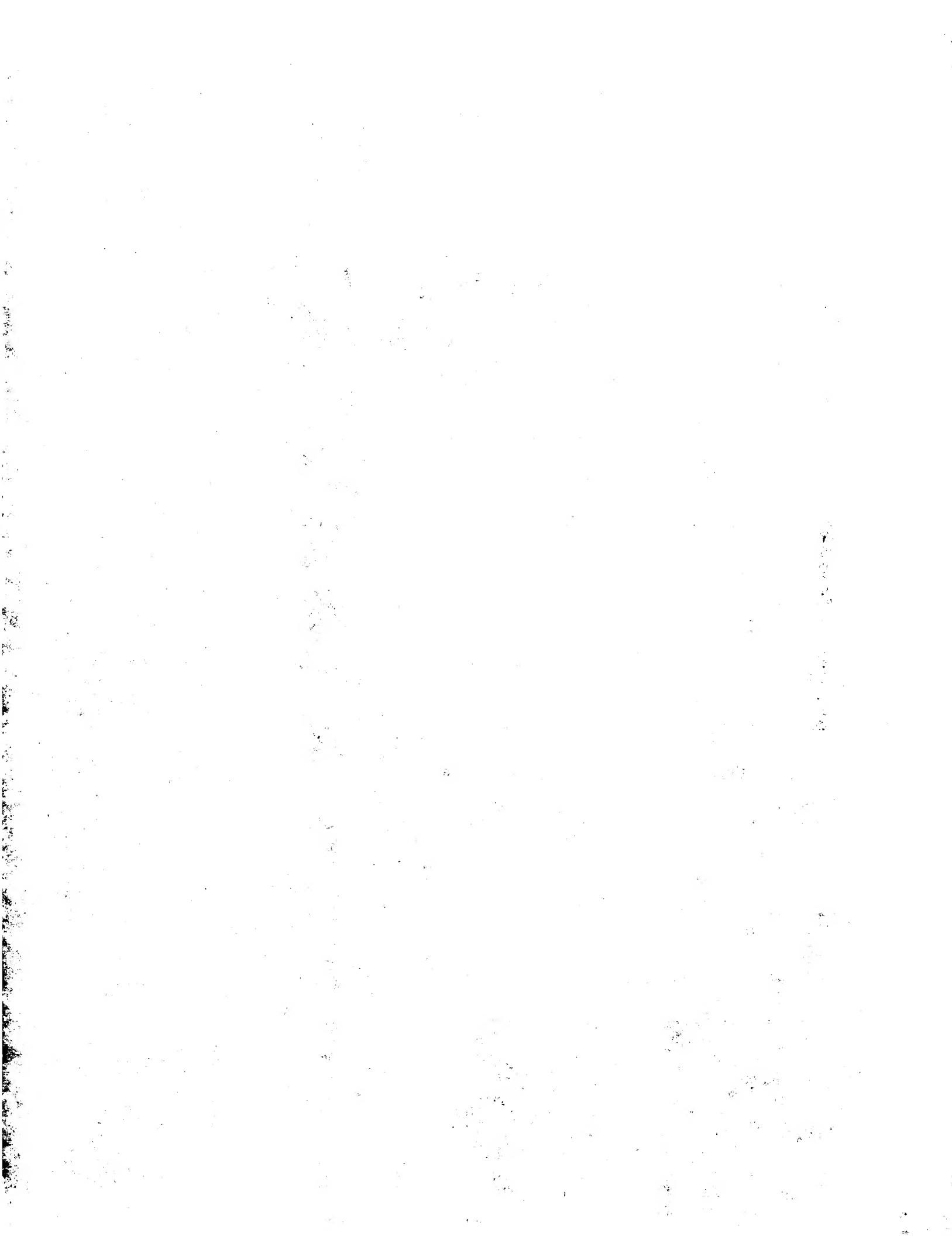


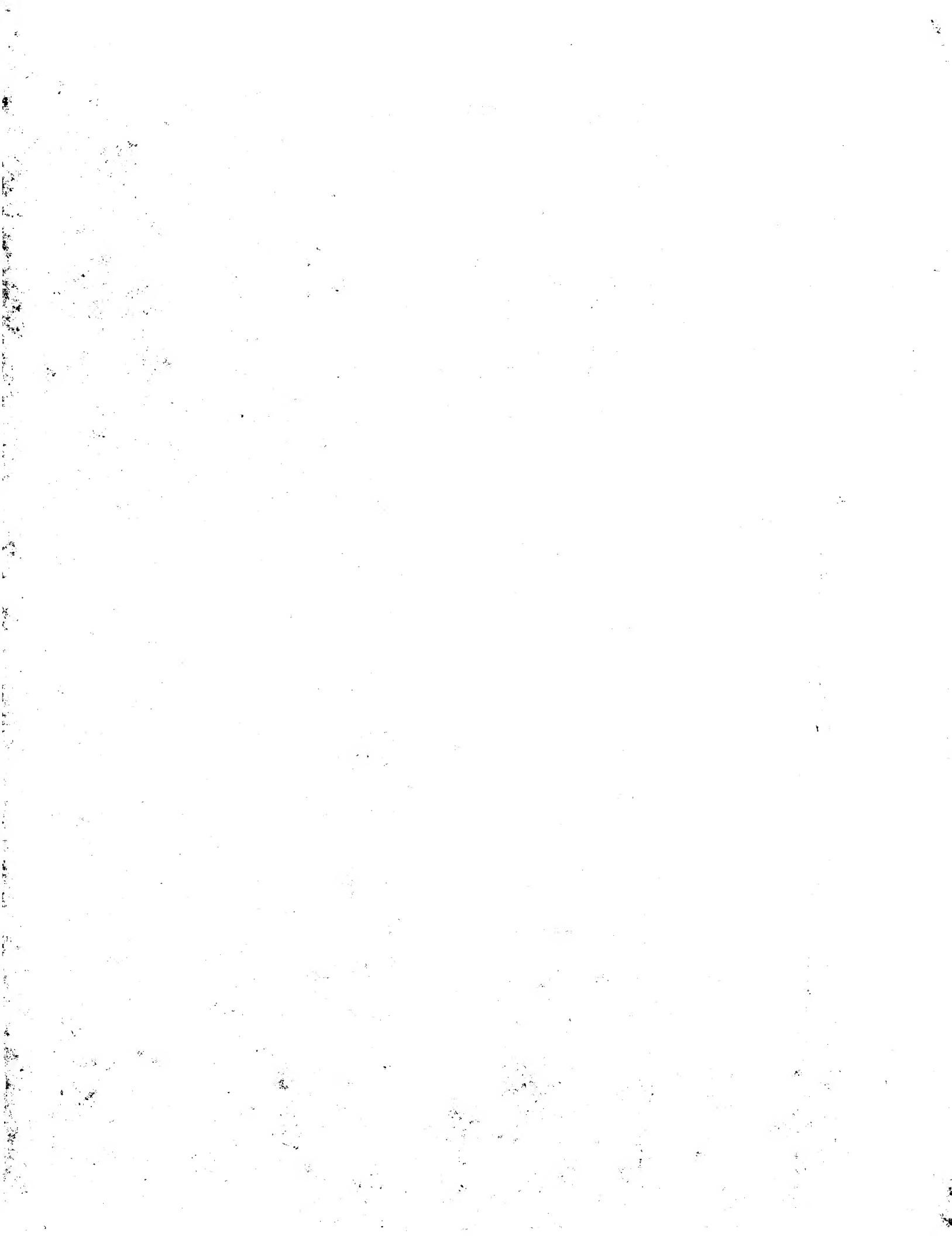


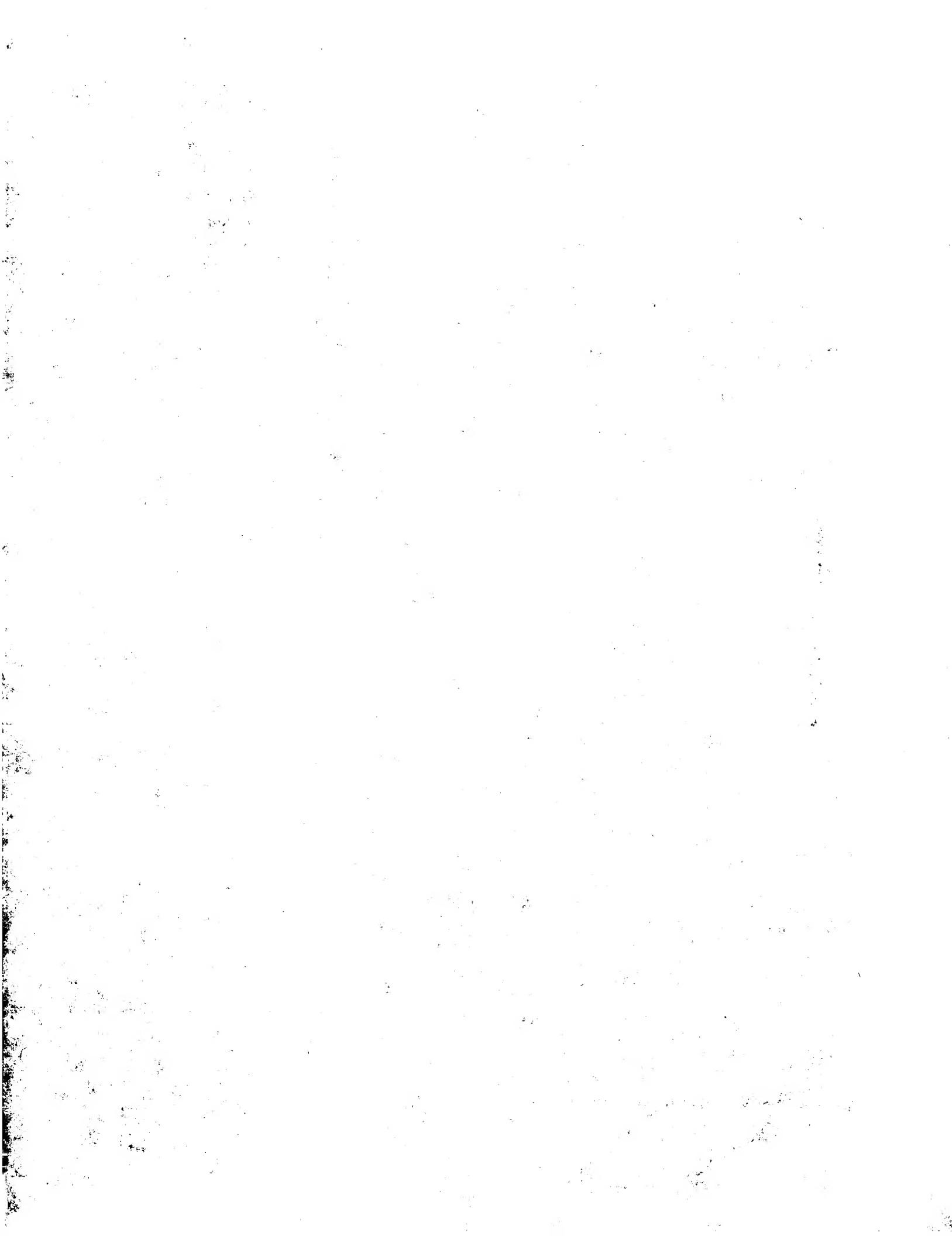


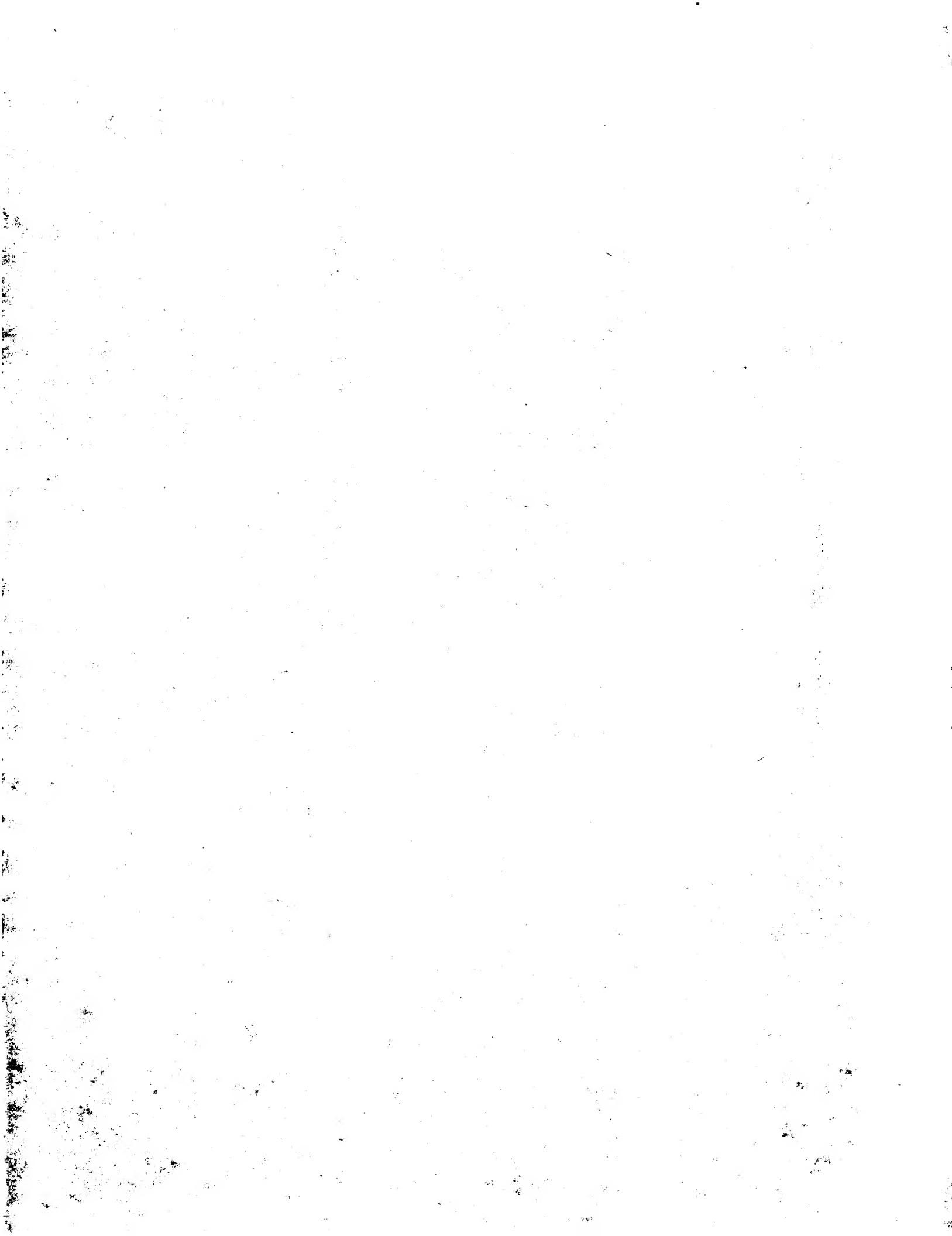


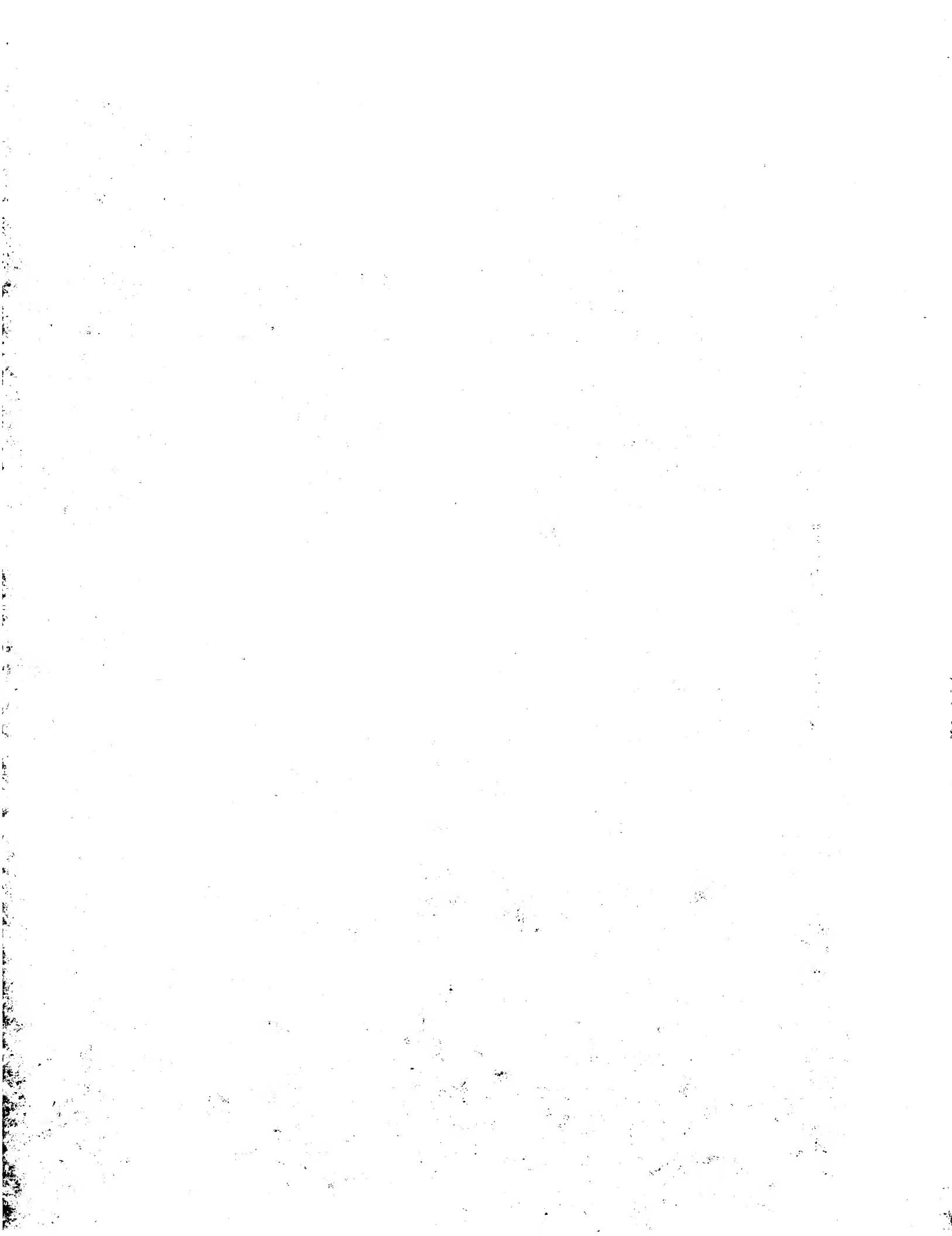


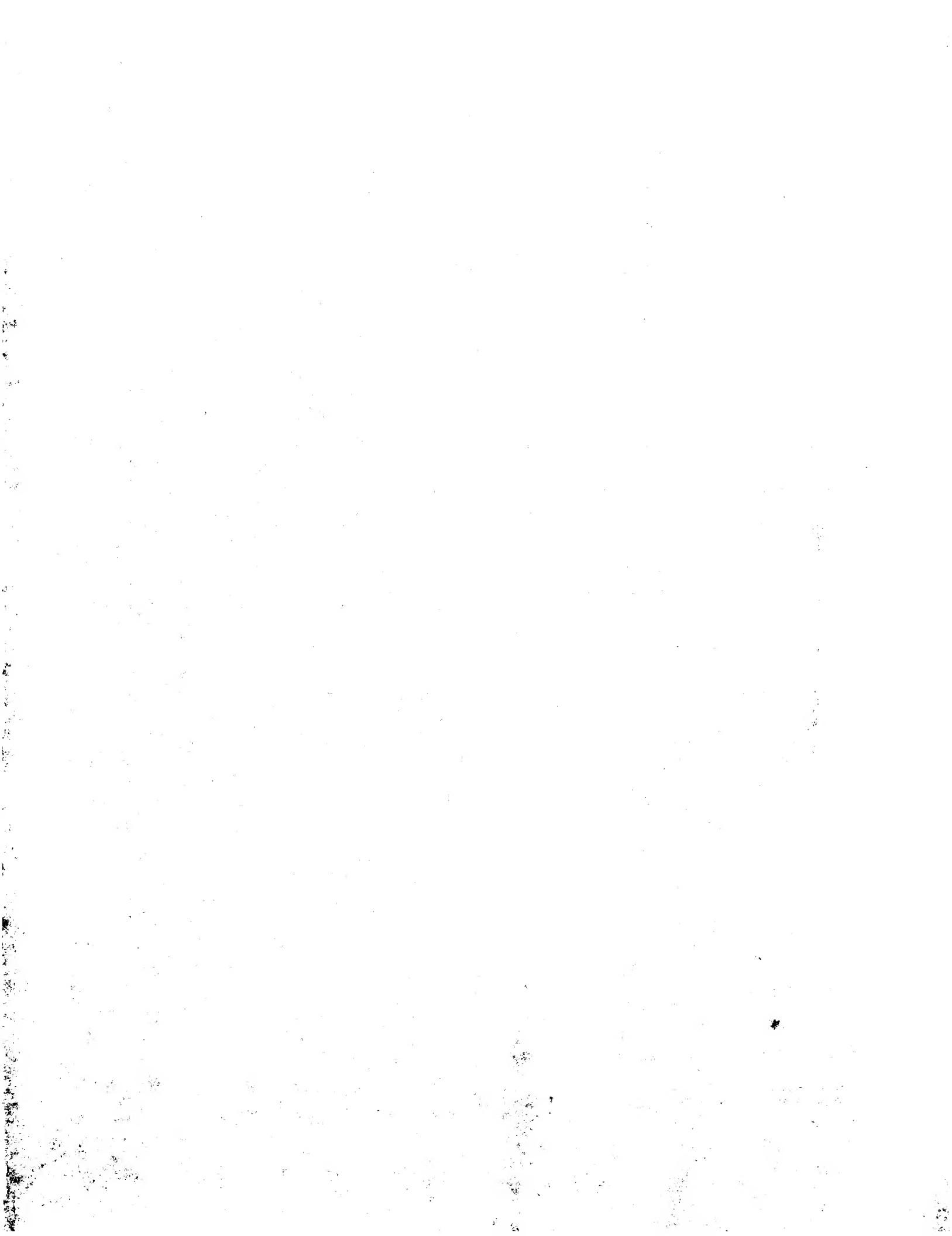


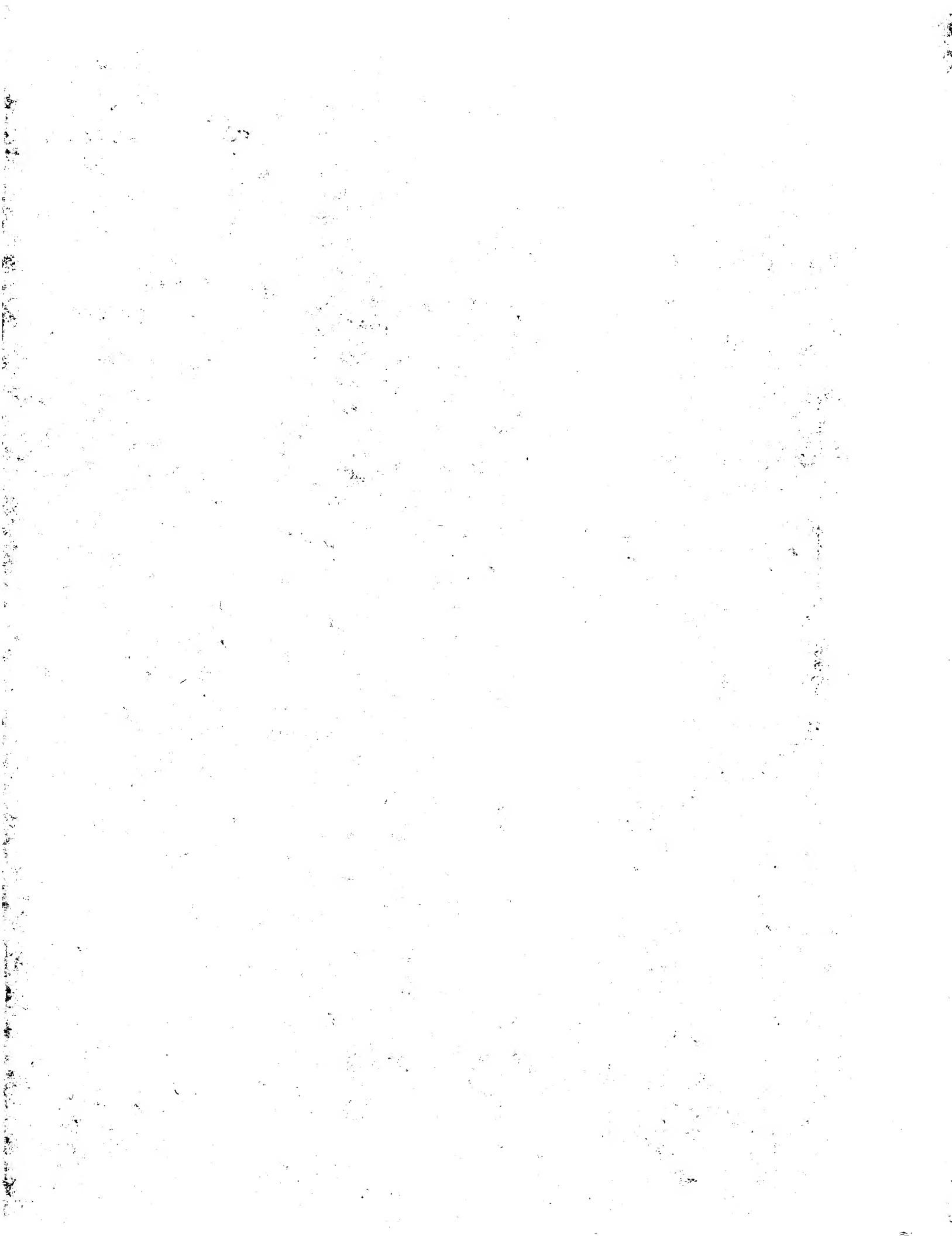


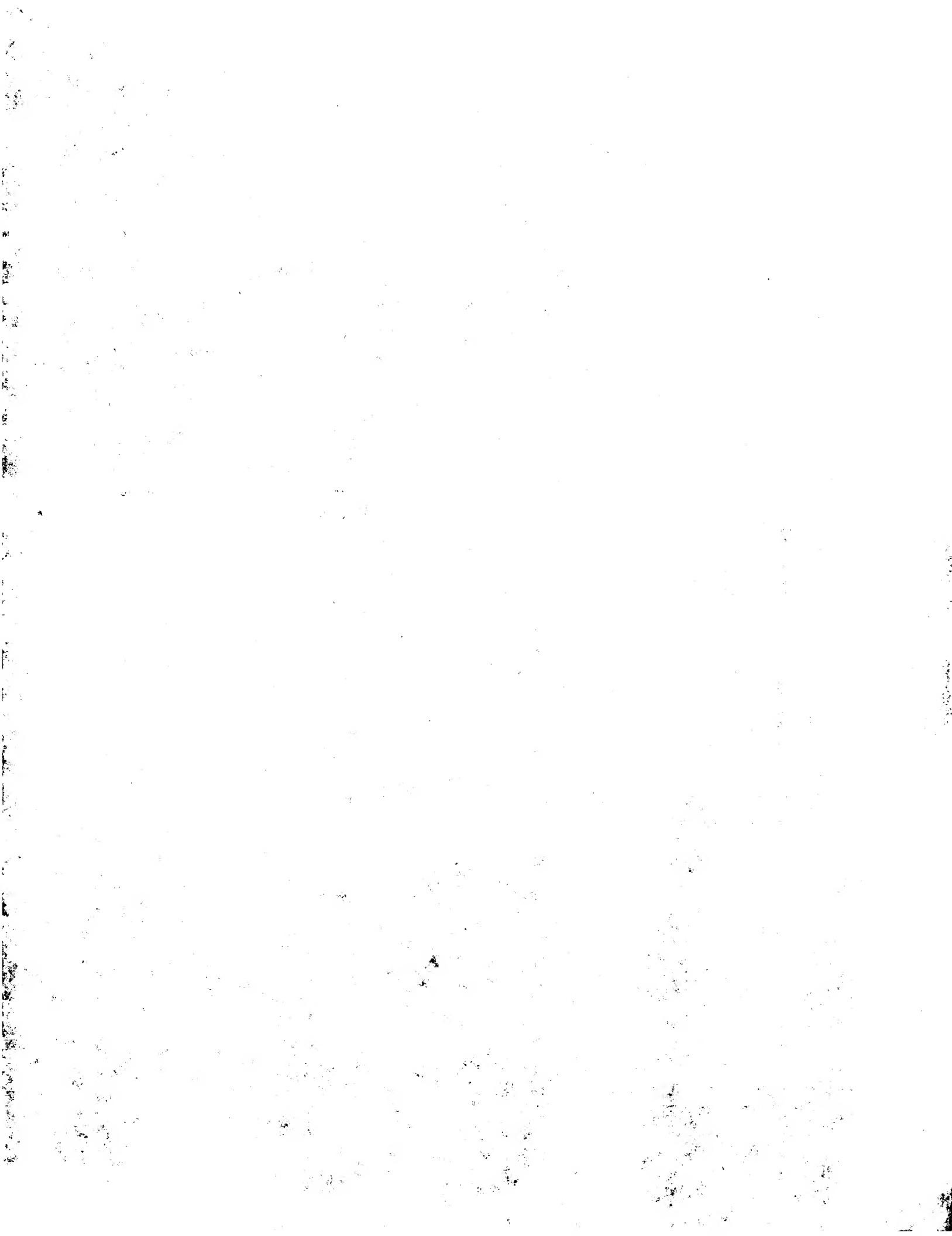














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Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr

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Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
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<210> 3849
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Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
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Ser Trp Leu Ser Leu Leu Val Pro Phe
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Ser Trp Trp Thr Ser Leu Asn Phe Leu
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<210> 3852
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Glu Tyr Leu Val Ser Phe Gly Val Trp Ile
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<210> 3853
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Ala Tyr Arg Pro Pro Asn Ala Pro Ile
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Trp Phe His Ile Ser Cys Leu Thr Phe
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<210> 3855
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Ser Trp Pro Lys Phe Ala Val Pro Asn Leu
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<210> 3856
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Lys Tyr Thr Ser Phe Pro Trp Leu Leu
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<210> 3857
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<400> 3857
Leu Tyr Ser His Pro Ile Ile Leu Gly Phe
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<210> 3858
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<400> 3858
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
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<210> 3859
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<400> 3859
Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys
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Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
1 5 10 15

<210> 3861
<211> 15
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<220>
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<400> 3861
Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
1 5 10 15

<210> 3862
<211> 20

<212> PRT
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<220>
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<400> 3862
Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
1 5 10 15
Asn Ala Pro Ile
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<210> 3863
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<220>
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<400> 3863
Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
1 5 10 15

<210> 3864
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<212> PRT
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Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
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<210> 3865
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<212> PRT
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<400> 3865
Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
1 5 10 15

<210> 3866
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Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val

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<210> 3867

<211> 15

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<400> 3867

Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

<210> 3868

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3868

Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

<210> 3869

<211> 20

<212> PRT

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<400> 3869

Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
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Met Thr Leu Ala
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<210> 3870

<211> 15

<212> PRT

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<400> 3870

Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
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<210> 3871

<211> 15

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<400> 3871
Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
1 5 10 15

<210> 3872
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<212> PRT
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<220>
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<400> 3872
Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile
1 5 10 15

<210> 3873
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<220>
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<400> 3873
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3874
<211> 14
<212> PRT
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<400> 3874
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3875
<211> 21
<212> PRT
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<220>
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<400> 3875
Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
1 5 10 15
Asn Val Val Asn Ser
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<210> 3876
<211> 16
<212> PRT
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<220>
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<400> 3876
Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
5 10 15
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<210> 3877
<211> 13
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<220>
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<220>
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<223> Xaa = cyclohexylalanine, Phe or Tyr

<400> 3877
Ala Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Ala
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C
<210> 3878
<211> 9
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<220>
<223> DR7 preferred motif

<220>
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<222> (1)...(1)
<223> Met, Phe, Leu, Ile, Val, Trp, or Tyr

<220>
<221> VARIANT
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<223> May be any amino acid

<220>
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<222> (6)...(6)
<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

<220>
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<220>
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<223> Ile or Val

<400> 3878
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa
1 5

<210> 3879
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<220>
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<220>
<221> VARIANT
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<223> Gly, Arg, or Asp

<400> 3879
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly
1 5